

## ANALYTICAL REPORT

Job Number: 680-115692-1

SDG Number: 680-115692-01

Job Description: 35th Avenue Superfund Site

For:

Oneida Total Integrated Enterprises LLC  
1220 Kennestone Circle  
Suite 106  
Marietta, GA 30060

Attention: Ms. Limari F Krebs



Approved for release.  
Lisa M Harvey  
Project Manager II  
8/21/2015 3:05 PM

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08/21/2015

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**CASE NARRATIVE**  
**Client: Oneida Total Integrated Enterprises LLC**  
**Project: 35th Avenue Superfund Site**  
**Report Number: 680-115692-1**

With the exceptions noted as flags or footnotes, standard analytical protocols were followed in the analysis of the samples and no problems were encountered or anomalies observed. In addition all laboratory quality control samples were within established control limits, with any exceptions noted below. Each sample was analyzed to achieve the lowest possible reporting limit within the constraints of the method. In the event of interference or analytes present at high concentrations, samples may be diluted. For diluted samples, the reporting limits are adjusted relative to the dilution required.

**RECEIPT**

The samples were received on 8/15/2015 10:50 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperatures of the 2 coolers at receipt time were 2.8° C and 3.4° C.

**SEMOVOLATILE ORGANIC COMPOUNDS (GC/MS) LOW LEVEL PAH**

Samples CV0511NN-CS-6 (680-115692-1), CV0511NN-CSD-6 (680-115692-2), CV0511NN-CS-12 (680-115692-3), CV0511NN-CS-18 (680-115692-4), CV0511NN-CS-24 (680-115692-5), CV0511TT-CS-6 (680-115692-6), CV0511TT-CS-12 (680-115692-7), CV0511TT-CS-18 (680-115692-8), CV0511TT-CS-24 (680-115692-9), CV0511SS-CS-6 (680-115692-10), CV0511SS-CS-12 (680-115692-11), CV0511SS-CS-18 (680-115692-12), CV0511SS-CS-24 (680-115692-13), CV0511HHH-CS-6 (680-115692-14), CV0511HHH-CSD-12 (680-115692-15), CV0511HHH-CS-12 (680-115692-16), CV0511HHH-CS-18 (680-115692-17), CV0511HHH-CS-24 (680-115692-18), CV0511BBB-CS-6 (680-115692-19) and CV0511BBB-CS-12 (680-115692-20) were analyzed for Semivolatile Organic Compounds (GC/MS) Low level PAH in accordance with EPA SW846 Method 8270D. The samples were prepared on 08/17/2015 and analyzed on 08/18/2015 and 08/19/2015.

Method(s) 8270D\_LL\_PAH: The following sample(s) required a dilution due to high targets and the nature of the sample matrix: CV0511NN-CS-6 (680-115692-1[10.0]), CV0511NN-CS-6 (680-115692-1[MS][10.0]), CV0511NN-CS-6 (680-115692-1[MSD][10.0]), CV0511NN-CSD-6 (680-115692-2[10.0]), CV0511TT-CS-6 (680-115692-6[10.0]), CV0511TT-CS-12 (680-115692-7[10.0]), CV0511TT-CS-18 (680-115692-8[10.0]), CV0511TT-CS-24 (680-115692-9[10.0]), CV0511SS-CS-6 (680-115692-10[10.0]), CV0511SS-CS-12 (680-115692-11[10.0]), CV0511SS-CS-18 (680-115692-12[10.0]), CV0511HHH-CS-6 (680-115692-14[10.0]), CV0511HHH-CSD-12 (680-115692-15[10.0]), CV0511HHH-CS-12 (680-115692-16[10.0]) and CV0511HHH-CS-18 (680-115692-17[10.0]). Because of this dilution, the surrogate spike concentration in the sample was reduced to a level where the recovery calculation does not provide useful information.

Method(s) 8270D\_LL\_PAH: The following sample required a dilution due to the nature of the sample matrix: CV0511BBB-CS-12 (680-115692-20). Because of this dilution, the surrogate spike concentration in the sample was reduced to a level where the recovery calculation does not provide useful information.

Method(s) 8270D\_LL\_PAH: The following sample was diluted due to the nature of the sample matrix : CV0511HHH-CS-24 (680-115692-18). As such, surrogate recoveries are below the calibration range or are not reported, and elevated reporting limits (RLs) are provided.

Method(s) 8270D\_LL\_PAH: The continuing calibration verification (CCV) analyzed in batch 680-396705 was outside the method criteria for the following analyte(s): Acenaphthene, Anthracene and Benzo[b]fluoranthene. A CCV standard at or below the reporting limit (RL) was analyzed with the affected samples and found to be acceptable. As indicated in the reference method, sample analysis may proceed; however, any detection for the affected analyte(s) is considered estimated.

Method(s) 8270D\_LL\_PAH: The continuing calibration verification (CCV) analyzed in batch 680-396964 was outside the method criteria for the following analyte(s): Dibenz(a,h)anthracene, Fluoranthene, Indeno[1,2,3-cd]pyrene and o-Terphenyl . A CCV standard at or below the reporting limit (RL) was analyzed with the affected samples and found to be acceptable. As indicated in the reference method, sample analysis may proceed; however, any detection for the affected analyte(s) is considered estimated.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

**METALS (ICP)**

Samples CV0511NN-CS-6 (680-115692-1), CV0511NN-CSD-6 (680-115692-2), CV0511NN-CS-12 (680-115692-3), CV0511NN-CS-18 (680-115692-4), CV0511NN-CS-24 (680-115692-5), CV0511TT-CS-6 (680-115692-6), CV0511TT-CS-12 (680-115692-7), CV0511TT-CS-18 (680-115692-8), CV0511TT-CS-24 (680-115692-9), CV0511SS-CS-6 (680-115692-10), CV0511SS-CS-12 (680-115692-11), CV0511SS-CS-18 (680-115692-12), CV0511SS-CS-24 (680-115692-13), CV0511HHH-CS-6 (680-115692-14), CV0511HHH-CSD-12 (680-115692-15), CV0511HHH-CS-12 (680-115692-16), CV0511HHH-CS-18 (680-115692-17), CV0511HHH-CS-24 (680-115692-18), CV0511BBB-CS-6 (680-115692-19) and CV0511BBB-CS-12 (680-115692-20) were analyzed for Metals (ICP) in accordance with EPA SW-846 Method 6010C. The samples were prepared on 08/17/2015 and analyzed on 08/20/2015.

Arsenic recovery is outside criteria low for the MS of sample CV0511NN-CS-6 (680-115692-1) in batch 680-397264.

Arsenic and Lead recoveries criteria high for the MSD of sample CV0511NN-CS-6 (680-115692-1) in batch 680-397264. Arsenic

exceeded the RPD limit.

Refer to the QC report for details.

Samples CV0511NN-CSD-6 (680-115692-2)[10X], CV0511SS-CS-12 (680-115692-11)[10X] and CV0511HHH-CS-24 (680-115692-18) [10X] required dilution prior to analysis. The reporting limits have been adjusted accordingly.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

**PERCENT SOLIDS/MOISTURE**

Samples CV0511NN-CS-6 (680-115692-1), CV0511NN-CSD-6 (680-115692-2), CV0511NN-CS-12 (680-115692-3), CV0511NN-CS-18 (680-115692-4), CV0511NN-CS-24 (680-115692-5), CV0511TT-CS-6 (680-115692-6), CV0511TT-CS-12 (680-115692-7), CV0511TT-CS-18 (680-115692-8), CV0511TT-CS-24 (680-115692-9), CV0511SS-CS-6 (680-115692-10), CV0511SS-CS-12 (680-115692-11), CV0511SS-CS-18 (680-115692-12), CV0511SS-CS-24 (680-115692-13), CV0511HHH-CS-6 (680-115692-14), CV0511HHH-CS-12 (680-115692-15), CV0511HHH-CS-12 (680-115692-16), CV0511HHH-CS-18 (680-115692-17), CV0511HHH-CS-24 (680-115692-18), CV0511BBB-CS-6 (680-115692-19) and CV0511BBB-CS-12 (680-115692-20) were analyzed for Percent Solids/Moisture in accordance with TestAmerica SOP. The samples were analyzed on 08/18/2015.

No analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

## SAMPLE SUMMARY

Client: Oneida Total Integrated Enterprises LLC

Job Number: 680-115692-1  
Sdg Number: 680-115692-01

<b>Lab Sample ID</b>	<b>Client Sample ID</b>	<b>Client Matrix</b>	<b>Date/Time Sampled</b>	<b>Date/Time Received</b>
680-115692-1	CV0511NN-CS-6	Solid	08/10/2015 1400	08/15/2015 1050
680-115692-1MS	CV0511NN-CS-6	Solid	08/10/2015 1400	08/15/2015 1050
680-115692-1MSD	CV0511NN-CS-6	Solid	08/10/2015 1400	08/15/2015 1050
680-115692-2	CV0511NN-CSD-6	Solid	08/10/2015 1400	08/15/2015 1050
680-115692-3	CV0511NN-CS-12	Solid	08/10/2015 1405	08/15/2015 1050
680-115692-4	CV0511NN-CS-18	Solid	08/10/2015 1410	08/15/2015 1050
680-115692-5	CV0511NN-CS-24	Solid	08/10/2015 1415	08/15/2015 1050
680-115692-6	CV0511TT-CS-6	Solid	08/10/2015 1445	08/15/2015 1050
680-115692-7	CV0511TT-CS-12	Solid	08/10/2015 1450	08/15/2015 1050
680-115692-8	CV0511TT-CS-18	Solid	08/10/2015 1455	08/15/2015 1050
680-115692-9	CV0511TT-CS-24	Solid	08/10/2015 1500	08/15/2015 1050
680-115692-10	CV0511SS-CS-6	Solid	08/10/2015 1535	08/15/2015 1050
680-115692-11	CV0511SS-CS-12	Solid	08/10/2015 1540	08/15/2015 1050
680-115692-12	CV0511SS-CS-18	Solid	08/10/2015 1545	08/15/2015 1050
680-115692-13	CV0511SS-CS-24	Solid	08/10/2015 1550	08/15/2015 1050
680-115692-14	CV0511HHH-CS-6	Solid	08/11/2015 0840	08/15/2015 1050
680-115692-15	CV0511HHH-CSD-12	Solid	08/11/2015 0845	08/15/2015 1050
680-115692-16	CV0511HHH-CS-12	Solid	08/11/2015 0845	08/15/2015 1050
680-115692-17	CV0511HHH-CS-18	Solid	08/11/2015 0850	08/15/2015 1050
680-115692-18	CV0511HHH-CS-24	Solid	08/11/2015 0855	08/15/2015 1050
680-115692-19	CV0511BBB-CS-6	Solid	08/11/2015 0930	08/15/2015 1050
680-115692-20	CV0511BBB-CS-12	Solid	08/11/2015 0935	08/15/2015 1050

## METHOD SUMMARY

Client: Oneida Total Integrated Enterprises LLC

Job Number: 680-115692-1  
Sdg Number: 680-115692-01

Description	Lab Location	Method	Preparation Method
<b>Matrix: Solid</b>			
Semivolatile Organic Compounds (GC/MS) Low level PAH Microwave Extraction	TAL SAV TAL SAV	SW846 8270D_LL_PAH SW846 3546	
Metals (ICP) Preparation, Metals	TAL SAV TAL SAV	SW846 6010C SW846 3050B	
Percent Moisture	TAL SAV	EPA Moisture	

### Lab References:

TAL SAV = TestAmerica Savannah

### Method References:

EPA = US Environmental Protection Agency

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

## METHOD / ANALYST SUMMARY

Client: Oneida Total Integrated Enterprises LLC

Job Number: 680-115692-1

Sdg Number: 680-115692-01

Method	Analyst	Analyst ID
SW846 8270D_LL_PAH	Mills, John E	JEM
SW846 8270D_LL_PAH	Moore, Ron A	RAM
SW846 6010C	Bland, Brian C	BCB
EPA Moisture	Swafford, Frances E	FES

## DATA REPORTING QUALIFIERS

Client: Oneida Total Integrated Enterprises LLC

Job Number: 680-115692-1

Sdg Number: 680-115692-01

Lab Section	Qualifier	Description
GC/MS Semi VOA	U	Indicates the analyte was analyzed for but not detected.
	J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
	D	Surrogate or matrix spike recoveries were not obtained because the extract was diluted for analysis; also compounds analyzed at a dilution may be flagged with a D.
Metals	U	Indicates the analyte was analyzed for but not detected.
	F1	MS and/or MSD Recovery is outside acceptance limits.
	F2	MS/MSD RPD exceeds control limits
	W	PS: Post-digestion spike was outside control limits
	J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
	V	Serial Dilution exceeds the control limits

## Quality Control Results

Client: Oneida Total Integrated Enterprises LLC

Job Number: 680-115692-1  
Sdg Number: 680-115692-01

### QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
<b>GC/MS Semi VOA</b>					
<b>Prep Batch: 680-396525</b>					
LCS 680-396525/22-A	Lab Control Sample	T	Solid	3546	
MB 680-396525/21-A	Method Blank	T	Solid	3546	
680-115692-1	CV0511NN-CS-6	T	Solid	3546	
680-115692-1MS	Matrix Spike	T	Solid	3546	
680-115692-1MSD	Matrix Spike Duplicate	T	Solid	3546	
680-115692-2	CV0511NN-CSD-6	T	Solid	3546	
680-115692-3	CV0511NN-CS-12	T	Solid	3546	
680-115692-4	CV0511NN-CS-18	T	Solid	3546	
680-115692-5	CV0511NN-CS-24	T	Solid	3546	
680-115692-6	CV0511TT-CS-6	T	Solid	3546	
680-115692-7	CV0511TT-CS-12	T	Solid	3546	
680-115692-8	CV0511TT-CS-18	T	Solid	3546	
680-115692-9	CV0511TT-CS-24	T	Solid	3546	
680-115692-10	CV0511SS-CS-6	T	Solid	3546	
680-115692-11	CV0511SS-CS-12	T	Solid	3546	
680-115692-12	CV0511SS-CS-18	T	Solid	3546	
680-115692-13	CV0511SS-CS-24	T	Solid	3546	
680-115692-14	CV0511HHH-CS-6	T	Solid	3546	
680-115692-15	CV0511HHH-CSD-12	T	Solid	3546	
680-115692-16	CV0511HHH-CS-12	T	Solid	3546	
680-115692-17	CV0511HHH-CS-18	T	Solid	3546	
680-115692-18	CV0511HHH-CS-24	T	Solid	3546	
680-115692-19	CV0511BBB-CS-6	T	Solid	3546	
680-115692-20	CV0511BBB-CS-12	T	Solid	3546	
<b>Analysis Batch: 680-396705</b>					
680-115692-19	CV0511BBB-CS-6	T	Solid	8270D_LL_PAH	680-396525
680-115692-20	CV0511BBB-CS-12	T	Solid	8270D_LL_PAH	680-396525

## Quality Control Results

Client: Oneida Total Integrated Enterprises LLC

Job Number: 680-115692-1  
Sdg Number: 680-115692-01

### QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
<b>GC/MS Semi VOA</b>					
<b>Analysis Batch:680-396712</b>					
LCS 680-396525/22-A	Lab Control Sample	T	Solid	8270D_LL_PAH	680-396525
MB 680-396525/21-A	Method Blank	T	Solid	8270D_LL_PAH	680-396525
680-115692-1	CV0511NN-CS-6	T	Solid	8270D_LL_PAH	680-396525
680-115692-1MS	Matrix Spike	T	Solid	8270D_LL_PAH	680-396525
680-115692-1MSD	Matrix Spike Duplicate	T	Solid	8270D_LL_PAH	680-396525
680-115692-2	CV0511NN-CSD-6	T	Solid	8270D_LL_PAH	680-396525
680-115692-3	CV0511NN-CS-12	T	Solid	8270D_LL_PAH	680-396525
680-115692-4	CV0511NN-CS-18	T	Solid	8270D_LL_PAH	680-396525
680-115692-5	CV0511NN-CS-24	T	Solid	8270D_LL_PAH	680-396525
680-115692-6	CV0511TT-CS-6	T	Solid	8270D_LL_PAH	680-396525
680-115692-7	CV0511TT-CS-12	T	Solid	8270D_LL_PAH	680-396525
680-115692-8	CV0511TT-CS-18	T	Solid	8270D_LL_PAH	680-396525
680-115692-9	CV0511TT-CS-24	T	Solid	8270D_LL_PAH	680-396525
680-115692-10	CV0511SS-CS-6	T	Solid	8270D_LL_PAH	680-396525
680-115692-11	CV0511SS-CS-12	T	Solid	8270D_LL_PAH	680-396525
680-115692-12	CV0511SS-CS-18	T	Solid	8270D_LL_PAH	680-396525
680-115692-13	CV0511SS-CS-24	T	Solid	8270D_LL_PAH	680-396525
680-115692-14	CV0511HHH-CS-6	T	Solid	8270D_LL_PAH	680-396525
680-115692-15	CV0511HHH-CSD-12	T	Solid	8270D_LL_PAH	680-396525
680-115692-16	CV0511HHH-CS-12	T	Solid	8270D_LL_PAH	680-396525
680-115692-17	CV0511HHH-CS-18	T	Solid	8270D_LL_PAH	680-396525
<b>Analysis Batch:680-396964</b>					
680-115692-18	CV0511HHH-CS-24	T	Solid	8270D_LL_PAH	680-396525

#### Report Basis

T = Total

## Quality Control Results

Client: Oneida Total Integrated Enterprises LLC

Job Number: 680-115692-1  
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### QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
<b>Metals</b>					
<b>Prep Batch: 680-396577</b>					
LCS 680-396577/2-A	Lab Control Sample	T	Solid	3050B	
MB 680-396577/1-A	Method Blank	T	Solid	3050B	
680-115692-1	CV0511NN-CS-6	T	Solid	3050B	
680-115692-1MS	Matrix Spike	T	Solid	3050B	
680-115692-1MSD	Matrix Spike Duplicate	T	Solid	3050B	
680-115692-2	CV0511NN-CSD-6	T	Solid	3050B	
680-115692-3	CV0511NN-CS-12	T	Solid	3050B	
680-115692-4	CV0511NN-CS-18	T	Solid	3050B	
680-115692-5	CV0511NN-CS-24	T	Solid	3050B	
680-115692-6	CV0511TT-CS-6	T	Solid	3050B	
680-115692-7	CV0511TT-CS-12	T	Solid	3050B	
680-115692-8	CV0511TT-CS-18	T	Solid	3050B	
680-115692-9	CV0511TT-CS-24	T	Solid	3050B	
680-115692-10	CV0511SS-CS-6	T	Solid	3050B	
680-115692-11	CV0511SS-CS-12	T	Solid	3050B	
680-115692-12	CV0511SS-CS-18	T	Solid	3050B	
680-115692-13	CV0511SS-CS-24	T	Solid	3050B	
680-115692-14	CV0511HHH-CS-6	T	Solid	3050B	
680-115692-15	CV0511HHH-CSD-12	T	Solid	3050B	
680-115692-16	CV0511HHH-CS-12	T	Solid	3050B	
680-115692-17	CV0511HHH-CS-18	T	Solid	3050B	
680-115692-18	CV0511HHH-CS-24	T	Solid	3050B	
680-115692-19	CV0511BBB-CS-6	T	Solid	3050B	
680-115692-20	CV0511BBB-CS-12	T	Solid	3050B	

## Quality Control Results

Client: Oneida Total Integrated Enterprises LLC

Job Number: 680-115692-1  
Sdg Number: 680-115692-01

### QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
<b>Metals</b>					
<b>Analysis Batch:680-397264</b>					
LCS 680-396577/2-A	Lab Control Sample	T	Solid	6010C	680-396577
MB 680-396577/1-A	Method Blank	T	Solid	6010C	680-396577
680-115692-1	CV0511NN-CS-6	T	Solid	6010C	680-396577
680-115692-1MS	Matrix Spike	T	Solid	6010C	680-396577
680-115692-1MSD	Matrix Spike Duplicate	T	Solid	6010C	680-396577
680-115692-2	CV0511NN-CSD-6	T	Solid	6010C	680-396577
680-115692-3	CV0511NN-CS-12	T	Solid	6010C	680-396577
680-115692-4	CV0511NN-CS-18	T	Solid	6010C	680-396577
680-115692-5	CV0511NN-CS-24	T	Solid	6010C	680-396577
680-115692-6	CV0511TT-CS-6	T	Solid	6010C	680-396577
680-115692-7	CV0511TT-CS-12	T	Solid	6010C	680-396577
680-115692-8	CV0511TT-CS-18	T	Solid	6010C	680-396577
680-115692-9	CV0511TT-CS-24	T	Solid	6010C	680-396577
680-115692-10	CV0511SS-CS-6	T	Solid	6010C	680-396577
680-115692-11	CV0511SS-CS-12	T	Solid	6010C	680-396577
680-115692-12	CV0511SS-CS-18	T	Solid	6010C	680-396577
680-115692-13	CV0511SS-CS-24	T	Solid	6010C	680-396577
680-115692-14	CV0511HHH-CS-6	T	Solid	6010C	680-396577
680-115692-15	CV0511HHH-CSD-12	T	Solid	6010C	680-396577
680-115692-16	CV0511HHH-CS-12	T	Solid	6010C	680-396577
680-115692-17	CV0511HHH-CS-18	T	Solid	6010C	680-396577
680-115692-18	CV0511HHH-CS-24	T	Solid	6010C	680-396577
680-115692-19	CV0511BBB-CS-6	T	Solid	6010C	680-396577
680-115692-20	CV0511BBB-CS-12	T	Solid	6010C	680-396577

#### Report Basis

T = Total

## Quality Control Results

Client: Oneida Total Integrated Enterprises LLC

Job Number: 680-115692-1  
Sdg Number: 680-115692-01

### QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
<b>General Chemistry</b>					
<b>Analysis Batch:680-396716</b>					
680-115692-1	CV0511NN-CS-6	T	Solid	Moisture	
680-115692-1MS	Matrix Spike	T	Solid	Moisture	
680-115692-1MSD	Matrix Spike Duplicate	T	Solid	Moisture	
680-115692-2	CV0511NN-CSD-6	T	Solid	Moisture	
680-115692-3	CV0511NN-CS-12	T	Solid	Moisture	
680-115692-4	CV0511NN-CS-18	T	Solid	Moisture	
680-115692-5	CV0511NN-CS-24	T	Solid	Moisture	
680-115692-6	CV0511TT-CS-6	T	Solid	Moisture	
680-115692-7	CV0511TT-CS-12	T	Solid	Moisture	
680-115692-8	CV0511TT-CS-18	T	Solid	Moisture	
680-115692-9	CV0511TT-CS-24	T	Solid	Moisture	
680-115692-10	CV0511SS-CS-6	T	Solid	Moisture	
680-115692-11	CV0511SS-CS-12	T	Solid	Moisture	
680-115692-12	CV0511SS-CS-18	T	Solid	Moisture	
680-115692-13	CV0511SS-CS-24	T	Solid	Moisture	
680-115692-14	CV0511HHH-CS-6	T	Solid	Moisture	
680-115692-15	CV0511HHH-CSD-12	T	Solid	Moisture	
680-115692-16	CV0511HHH-CS-12	T	Solid	Moisture	
680-115692-17	CV0511HHH-CS-18	T	Solid	Moisture	
680-115692-18	CV0511HHH-CS-24	T	Solid	Moisture	
680-115692-19	CV0511BBB-CS-6	T	Solid	Moisture	
680-115692-20	CV0511BBB-CS-12	T	Solid	Moisture	

#### Report Basis

T = Total

## GC/MS SEMI VOA MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica SavannahJob No.: 680-115692-1SDG No.: 680-115692-01

Instrument ID: CMSD

Analysis Batch Number: 396705Lab Sample ID: 680-115692-19Client Sample ID: CV0511BBB-CS-6Date Analyzed: 08/18/15 14:45Lab File ID: 1DF18005.DGC Column: RXi- 5Sil MS ID: 0.25 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Benzo[b]fluoranthene	11.41	Assign Peak	millsj	08/19/15 11:58
Benzo[k]fluoranthene	11.42	Assign Peak	millsj	08/19/15 11:58

Lab Sample ID: 680-115692-20Client Sample ID: CV0511BBB-CS-12Date Analyzed: 08/18/15 15:14Lab File ID: 1DF18006.DGC Column: RXi- 5Sil MS ID: 0.25 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Benzo[k]fluoranthene	11.45	Assign Peak	millsj	08/19/15 12:00

## GC/MS SEMI VOA MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Savannah Job No.: 680-115692-1  
SDG No.: 680-115692-01  
Instrument ID: CMSK Analysis Batch Number: 396964  
Lab Sample ID: 680-115692-18 Client Sample ID: CV0511HHH-CS-24  
Date Analyzed: 08/19/15 21:38 Lab File ID: 1KH19025.D GC Column: RXi- 5Sil MS ID: 0.25 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Benzo[b]fluoranthene	11.43	Split Peak	moorer	08/20/15 11:19
Benzo[k]fluoranthene	11.46	Split Peak	moorer	08/20/15 11:19

## GC/MS SEMI VOA MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Savannah Job No.: 680-115692-1  
SDG No.: 680-115692-01  
Instrument ID: CMSY Analysis Batch Number: 395667  
Lab Sample ID: IC 680-395667/8 Client Sample ID: \_\_\_\_\_  
Date Analyzed: 08/12/15 16:37 Lab File ID: 1YF12008.D GC Column: RXi- 5Sil MS ID: 0.25 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
1-Methylnaphthalene	7.20	Assign Peak	millsj	08/13/15 09:08

## GC/MS SEMI VOA MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica SavannahJob No.: 680-115692-1SDG No.: 680-115692-01Instrument ID: CMSYAnalysis Batch Number: 396712Lab Sample ID: 680-115692-8Client Sample ID: CV0511TT-CS-18Date Analyzed: 08/18/15 18:48Lab File ID: 1YF18016.DGC Column: RXi- 5Sil MS ID: 0.25 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Benzo[a]anthracene	11.75	Incomplete Integration	millsj	08/19/15 11:09
Chrysene	11.79	Incomplete Integration	millsj	08/19/15 11:09

Lab Sample ID: 680-115692-9Client Sample ID: CV0511TT-CS-24Date Analyzed: 08/18/15 19:17Lab File ID: 1YF18017.DGC Column: RXi- 5Sil MS ID: 0.25 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Benzo[a]anthracene	11.75	Incomplete Integration	millsj	08/19/15 11:11
Chrysene	11.79	Incomplete Integration	millsj	08/19/15 11:11

# **Method 8270D Low Level**

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**Semivolatile Organic Compounds  
(GC/MS) Low Level by Method 8270D**

FORM II  
GC/MS SEMI VOA SURROGATE RECOVERY

Lab Name: TestAmerica Savannah Job No.: 680-115692-1  
SDG No.: 680-115692-01  
Matrix: Solid Level: Low  
GC Column (1): RXi- 5Sil M ID: 0.25 (mm)

Client Sample ID	Lab Sample ID	OTPH #
CV0511NN-CS-6	680-115692-1	0 D
CV0511NN-CSD-6	680-115692-2	0 D
CV0511NN-CS-12	680-115692-3	68
CV0511NN-CS-18	680-115692-4	81
CV0511NN-CS-24	680-115692-5	77
CV0511TT-CS-6	680-115692-6	0 D
CV0511TT-CS-12	680-115692-7	0 D
CV0511TT-CS-18	680-115692-8	0 D
CV0511TT-CS-24	680-115692-9	0 D
CV0511SS-CS-6	680-115692-10	0 D
CV0511SS-CS-12	680-115692-11	0 D
CV0511SS-CS-18	680-115692-12	0 D
CV0511SS-CS-24	680-115692-13	93
CV0511HHH-CS-6	680-115692-14	0 D
CV0511HHH-CSD-12	680-115692-15	0 D
CV0511HHH-CS-12	680-115692-16	0 D
CV0511HHH-CS-18	680-115692-17	0 D
CV0511HHH-CS-24	680-115692-18	0 D
CV0511BBB-CS-6	680-115692-19	119
CV0511BBB-CS-12	680-115692-20	0 D
	MB 680-396525/21-A	85
	LCS 680-396525/22-A	91
CV0511NN-CS-6 MS	680-115692-1 MS	0 D
CV0511NN-CS-6 MSD	680-115692-1 MSD	0 D

OTPH = o-Terphenyl

QC LIMITS  
36-131

# Column to be used to flag recovery values

FORM II 8270D\_LL\_PAH

FORM III  
GC/MS SEMI VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: TestAmerica Savannah Job No.: 680-115692-1  
SDG No.: 680-115692-01  
Matrix: Solid Level: Low Lab File ID: 1YF18006.D  
Lab ID: LCS 680-396525/22-A Client ID: \_\_\_\_\_

COMPOUND	SPIKE ADDED (ug/Kg)	LCS CONCENTRATION (ug/Kg)	LCS % REC	QC LIMITS REC	#
Acenaphthene	333	293	88	33-130	
Acenaphthylene	333	274	83	37-131	
Anthracene	333	392	118	42-146	
Benzo [a]anthracene	333	331	100	39-157	
Benzo [a]pyrene	333	360	108	41-158	
Benzo [b]fluoranthene	333	350	105	35-152	
Benzo [g,h,i]perylene	333	363	109	32-150	
Benzo [k]fluoranthene	333	351	106	38-148	
Chrysene	333	314	94	38-147	
Dibenz (a,h)anthracene	333	364	109	32-155	
Fluoranthene	333	341	102	36-147	
Fluorene	333	310	93	36-138	
Indeno[1,2,3-cd]pyrene	333	353	106	35-148	
1-Methylnaphthalene	333	282	85	36-130	
2-Methylnaphthalene	333	287	86	42-130	
Naphthalene	333	278	83	33-130	
Phenanthrene	333	342	103	40-135	
Pyrene	333	322	97	38-145	

# Column to be used to flag recovery and RPD values

FORM III 8270D\_LL\_PAH

FORM III  
GC/MS SEMI VOA MATRIX SPIKE RECOVERY

Lab Name: TestAmerica Savannah

Job No.: 680-115692-1

SDG No.: 680-115692-01

Matrix: Solid

Level: Low

Lab File ID: 1YF18007.D

Lab ID: 680-115692-1 MS

Client ID: CV0511NN-CS-6 MS

COMPOUND	SPIKE ADDED (ug/Kg)	SAMPLE CONCENTRATION (ug/Kg)	MS CONCENTRATION (ug/Kg)	MS % REC	QC LIMITS REC	#
Acenaphthene	375	76 U	280	75	33-130	
Acenaphthylene	375	76 U	253	67	37-131	
Anthracene	375	63 J	377	84	42-146	
Benzo [a]anthracene	375	400	642	64	39-157	
Benzo [a]pyrene	375	370	610	65	41-158	
Benzo [b]fluoranthene	375	570	764	51	35-152	
Benzo [g, h, i]perylene	375	220	481	70	32-150	
Benzo [k]fluoranthene	375	190	537	91	38-148	
Chrysene	375	440	640	55	38-147	
Dibenz (a, h)anthracene	375	71 J	341	72	32-155	
Fluoranthene	375	760	1010	66	36-147	
Fluorene	375	76 U	278	74	36-138	
Indeno[1, 2, 3-cd]pyrene	375	210	501	78	35-148	
1-Methylnaphthalene	375	76 U	261	70	36-130	
2-Methylnaphthalene	375	76 U	265	71	42-130	
Naphthalene	375	76 U	258	69	33-130	
Phenanthrene	375	290	567	74	40-135	
Pyrene	375	580	782	54	38-145	

# Column to be used to flag recovery and RPD values

FORM III 8270D\_LL\_PAH

FORM III  
GC/MS SEMI VOA MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: TestAmerica Savannah Job No.: 680-115692-1  
SDG No.: 680-115692-01  
Matrix: Solid Level: Low Lab File ID: 1YF18008.D  
Lab ID: 680-115692-1 MSD Client ID: CV0511NN-CS-6 MSD

COMPOUND	SPIKE ADDED (ug/Kg)	MSD CONCENTRATION (ug/Kg)	MSD % REC	% RPD	QC LIMITS		#
					RPD	REC	
Acenaphthene	375	348	93	22	50	33-130	
Acenaphthylene	375	297	79	16	50	37-131	
Anthracene	375	447	103	17	50	42-146	
Benzo [a]anthracene	375	790	104	21	50	39-157	
Benzo [a]pyrene	375	764	106	22	50	41-158	
Benzo [b]fluoranthene	375	931	96	20	50	35-152	
Benzo [g,h,i]perylene	375	544	87	12	50	32-150	
Benzo [k]fluoranthene	375	657	123	20	50	38-148	
Chrysene	375	764	88	18	50	38-147	
Dibenz (a,h)anthracene	375	401	88	16	50	32-155	
Fluoranthene	375	1190	113	16	50	36-147	
Fluorene	375	339	90	20	50	36-138	
Indeno[1,2,3-cd]pyrene	375	539	88	7	50	35-148	
1-Methylnaphthalene	375	295	79	12	50	36-130	
2-Methylnaphthalene	375	314	84	17	50	42-130	
Naphthalene	375	306	82	17	50	33-130	
Phenanthrene	375	710	112	22	50	40-135	
Pyrene	375	967	104	21	50	38-145	

# Column to be used to flag recovery and RPD values

FORM III 8270D\_LL\_PAH

FORM IV  
GC/MS SEMI VOA METHOD BLANK SUMMARY

Lab Name: TestAmerica Savannah Job No.: 680-115692-1  
SDG No.: 680-115692-01  
Lab File ID: 1YF18005.D Lab Sample ID: MB 680-396525/21-A  
Matrix: Solid Date Extracted: 08/17/2015 10:44  
Instrument ID: CMSY Date Analyzed: 08/18/2015 13:34  
Level: (Low/Med) Low

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
	LCS 680-396525/22-A	1YF18006.D	08/18/2015 14:03
CV0511NN-CS-6 MS	680-115692-1 MS	1YF18007.D	08/18/2015 14:31
CV0511BBB-CS-6	680-115692-19	1DF18005.D	08/18/2015 14:45
CV0511NN-CS-6 MSD	680-115692-1 MSD	1YF18008.D	08/18/2015 14:59
CV0511BBB-CS-12	680-115692-20	1DF18006.D	08/18/2015 15:14
CV0511NN-CS-6	680-115692-1	1YF18009.D	08/18/2015 15:27
CV0511NN-CSD-6	680-115692-2	1YF18010.D	08/18/2015 15:56
CV0511NN-CS-12	680-115692-3	1YF18011.D	08/18/2015 16:25
CV0511NN-CS-18	680-115692-4	1YF18012.D	08/18/2015 16:54
CV0511NN-CS-24	680-115692-5	1YF18013.D	08/18/2015 17:22
CV0511TT-CS-6	680-115692-6	1YF18014.D	08/18/2015 17:51
CV0511TT-CS-12	680-115692-7	1YF18015.D	08/18/2015 18:19
CV0511TT-CS-18	680-115692-8	1YF18016.D	08/18/2015 18:48
CV0511TT-CS-24	680-115692-9	1YF18017.D	08/18/2015 19:17
CV0511SS-CS-6	680-115692-10	1YF18018.D	08/18/2015 19:45
CV0511SS-CS-12	680-115692-11	1YF18019.D	08/18/2015 20:13
CV0511SS-CS-18	680-115692-12	1YF18020.D	08/18/2015 20:42
CV0511SS-CS-24	680-115692-13	1YF18021.D	08/18/2015 21:10
CV0511HHH-CS-6	680-115692-14	1YF18022.D	08/18/2015 21:38
CV0511HHH-CSD-12	680-115692-15	1YF18023.D	08/18/2015 22:06
CV0511HHH-CS-12	680-115692-16	1YF18024.D	08/18/2015 22:34
CV0511HHH-CS-18	680-115692-17	1YF18025.D	08/18/2015 23:02
CV0511HHH-CS-24	680-115692-18	1KH19025.D	08/19/2015 21:38

FORM V  
GC/MS SEMI VOA INSTRUMENT PERFORMANCE CHECK  
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: TestAmerica Savannah Job No.: 680-115692-1  
SDG No.: 680-115692-01  
Lab File ID: 1DF13101.D DFTPP Injection Date: 08/13/2015  
Instrument ID: CMSD DFTPP Injection Time: 17:48  
Analysis Batch No.: 396042

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	10.0 - 80.0 % of mass 442	29.2
68	Less than 2.0 % of mass 69	0.0 (0.0)1
69	Mass 69 relative abundance	54.1
70	Less than 2.0 % of mass 69	0.2 (0.3)1
127	10.0 - 80.0 % of mass 442	59.1
197	Less than 2.0 % of mass 198	0.0 (0.0)2
198	Greater than 50.0 % of mass 442	146.4
199	5.0 - 9.0 % of mass 198	7.9 (5.4)2
275	10.0 - 60.0 % of mass 442	37.9
365	Greater than 1.0 % of mass 442	10.9
441	Present but less than mass 443	16.0
442	Base Peak, 100% relative abundance	100.0
443	15.0 - 24.0 % of mass 442	18.7

1-Value is % mass 69

2-Value is % mass 198

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS AND STANDARDS:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
	IC 680-396042/2	1DF13002.D	08/13/2015	18:16
	IC 680-396042/3	1DF13003.D	08/13/2015	18:45
	ICIS 680-396042/4	1DF13004.D	08/13/2015	19:14
	IC 680-396042/5	1DF13005.D	08/13/2015	19:43
	IC 680-396042/6	1DF13006.D	08/13/2015	20:12
	IC 680-396042/7	1DF13007.D	08/13/2015	20:41
	IC 680-396042/8	1DF13008.D	08/13/2015	21:10
	ICV 680-396042/9	1DF13009.D	08/13/2015	21:39

FORM V  
GC/MS SEMI VOA INSTRUMENT PERFORMANCE CHECK  
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: TestAmerica Savannah Job No.: 680-115692-1  
SDG No.: 680-115692-01  
Lab File ID: 1DF18001.D DFTPP Injection Date: 08/18/2015  
Instrument ID: CMSD DFTPP Injection Time: 12:12  
Analysis Batch No.: 396705

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	10.0 - 80.0 % of mass 442	25.3
68	Less than 2.0 % of mass 69	0.1 (0.2)1
69	Mass 69 relative abundance	43.9
70	Less than 2.0 % of mass 69	0.0 (0.0)1
127	10.0 - 80.0 % of mass 442	54.5
197	Less than 2.0 % of mass 198	0.0 (0.0)2
198	Greater than 50.0 % of mass 442	137.1
199	5.0 - 9.0 % of mass 198	7.7 (5.6)2
275	10.0 - 60.0 % of mass 442	30.5
365	Greater than 1.0 % of mass 442	8.5
441	Present but less than mass 443	12.8
442	Base Peak, 100% relative abundance	100.0
443	15.0 - 24.0 % of mass 442	18.3

1-Value is % mass 69

2-Value is % mass 198

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS AND STANDARDS:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
	CCVIS 680-396705/2	1DF18002.D	08/18/2015	13:17
CV0511BBB-CS-6	680-115692-19	1DF18005.D	08/18/2015	14:45
CV0511BBB-CS-12	680-115692-20	1DF18006.D	08/18/2015	15:14

FORM V  
GC/MS SEMI VOA INSTRUMENT PERFORMANCE CHECK  
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: TestAmerica Savannah Job No.: 680-115692-1  
SDG No.: 680-115692-01  
Lab File ID: 1KF13001.D DFTPP Injection Date: 08/13/2015  
Instrument ID: CMSK DFTPP Injection Time: 17:06  
Analysis Batch No.: 396036

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	10.0 - 80.0 % of mass 442	20.3
68	Less than 2.0 % of mass 69	0.0 (0.0)1
69	Mass 69 relative abundance	21.3
70	Less than 2.0 % of mass 69	0.0 (0.0)1
127	10.0 - 80.0 % of mass 442	27.9
197	Less than 2.0 % of mass 198	0.0 (0.0)2
198	Greater than 50.0 % of mass 442	63.3
199	5.0 - 9.0 % of mass 198	4.3 (6.8)2
275	10.0 - 60.0 % of mass 442	18.4
365	Greater than 1.0 % of mass 442	3.1
441	Present but less than mass 443	17.3
442	Base Peak, 100% relative abundance	100.0
443	15.0 - 24.0 % of mass 442	19.2

1-Value is % mass 69

2-Value is % mass 198

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS AND STANDARDS:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
	IC 680-396036/2	1KF13002.D	08/13/2015	17:33
	IC 680-396036/3	1KF13003.D	08/13/2015	17:59
	ICIS 680-396036/4	1KF13004.D	08/13/2015	18:26
	IC 680-396036/5	1KF13005.D	08/13/2015	18:52
	IC 680-396036/6	1KF13006.D	08/13/2015	19:19
	IC 680-396036/7	1KF13007.D	08/13/2015	19:45
	IC 680-396036/8	1KF13008.D	08/13/2015	20:12
	ICV 680-396036/9	1KF13009.D	08/13/2015	20:38

FORM V  
GC/MS SEMI VOA INSTRUMENT PERFORMANCE CHECK  
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: TestAmerica Savannah Job No.: 680-115692-1  
SDG No.: 680-115692-01  
Lab File ID: 1KH19001.D DFTPP Injection Date: 08/19/2015  
Instrument ID: CMSK DFTPP Injection Time: 11:48  
Analysis Batch No.: 396964

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	10.0 - 80.0 % of mass 442	21.5
68	Less than 2.0 % of mass 69	0.0 (0.0)1
69	Mass 69 relative abundance	23.2
70	Less than 2.0 % of mass 69	0.0 (0.0)1
127	10.0 - 80.0 % of mass 442	29.1
197	Less than 2.0 % of mass 198	0.0 (0.0)2
198	Greater than 50.0 % of mass 442	65.6
199	5.0 - 9.0 % of mass 198	4.4 (6.7)2
275	10.0 - 60.0 % of mass 442	18.9
365	Greater than 1.0 % of mass 442	3.3
441	Present but less than mass 443	8.6
442	Base Peak, 100% relative abundance	100.0
443	15.0 - 24.0 % of mass 442	19.3

1-Value is % mass 69

2-Value is % mass 198

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS AND STANDARDS:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
	CCVIS 680-396964/2	1KH19002.D	08/19/2015	12:12
CV0511HHH-CS-24	680-115692-18	1KH19025.D	08/19/2015	21:38

FORM V  
GC/MS SEMI VOA INSTRUMENT PERFORMANCE CHECK  
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: TestAmerica Savannah Job No.: 680-115692-1  
SDG No.: 680-115692-01  
Lab File ID: 1YF12001.D DFTPP Injection Date: 08/12/2015  
Instrument ID: CMSY DFTPP Injection Time: 12:39  
Analysis Batch No.: 395667

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	10.0 - 80.0 % of mass 442	36.5
68	Less than 2.0 % of mass 69	0.0 (0.0)1
69	Mass 69 relative abundance	38.2
70	Less than 2.0 % of mass 69	0.0 (0.0)1
127	10.0 - 80.0 % of mass 442	40.9
197	Less than 2.0 % of mass 198	0.0 (0.0)2
198	Greater than 50.0 % of mass 442	72.2
199	5.0 - 9.0 % of mass 198	5.1 (7.0)2
275	10.0 - 60.0 % of mass 442	20.2
365	Greater than 1.0 % of mass 442	3.3
441	Present but less than mass 443	16.2
442	Base Peak, 100% relative abundance	100.0
443	15.0 - 24.0 % of mass 442	20.6

1-Value is % mass 69

2-Value is % mass 198

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS AND STANDARDS:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
	IC 680-395667/2	1YF12002.D	08/12/2015	13:48
	IC 680-395667/3	1YF12003.D	08/12/2015	14:16
	ICIS 680-395667/4	1YF12004.D	08/12/2015	14:44
	IC 680-395667/5	1YF12005.D	08/12/2015	15:12
	IC 680-395667/6	1YF12006.D	08/12/2015	15:40
	IC 680-395667/7	1YF12007.D	08/12/2015	16:09
	IC 680-395667/8	1YF12008.D	08/12/2015	16:37
	ICV 680-395667/9	1YF12009.D	08/12/2015	17:06

FORM V  
GC/MS SEMI VOA INSTRUMENT PERFORMANCE CHECK  
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: TestAmerica Savannah Job No.: 680-115692-1  
SDG No.: 680-115692-01  
Lab File ID: 1YF18001.D DFTPP Injection Date: 08/18/2015  
Instrument ID: CMSY DFTPP Injection Time: 11:21  
Analysis Batch No.: 396712

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	10.0 - 80.0 % of mass 442	34.2
68	Less than 2.0 % of mass 69	0.0 (0.0)1
69	Mass 69 relative abundance	35.4
70	Less than 2.0 % of mass 69	0.0 (0.0)1
127	10.0 - 80.0 % of mass 442	39.1
197	Less than 2.0 % of mass 198	0.0 (0.0)2
198	Greater than 50.0 % of mass 442	63.0
199	5.0 - 9.0 % of mass 198	4.2 (6.7)2
275	10.0 - 60.0 % of mass 442	23.1
365	Greater than 1.0 % of mass 442	4.3
441	Present but less than mass 443	16.9
442	Base Peak, 100% relative abundance	100.0
443	15.0 - 24.0 % of mass 442	21.0

1-Value is % mass 69

2-Value is % mass 198

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS AND STANDARDS:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
	CCVIS 680-396712/2	1YF18102.D	08/18/2015	12:10
	MB 680-396525/21-A	1YF18005.D	08/18/2015	13:34
	LCS 680-396525/22-A	1YF18006.D	08/18/2015	14:03
CV0511NN-CS-6 MS	680-115692-1 MS	1YF18007.D	08/18/2015	14:31
CV0511NN-CS-6 MSD	680-115692-1 MSD	1YF18008.D	08/18/2015	14:59
CV0511NN-CS-6	680-115692-1	1YF18009.D	08/18/2015	15:27
CV0511NN-CSD-6	680-115692-2	1YF18010.D	08/18/2015	15:56
CV0511NN-CS-12	680-115692-3	1YF18011.D	08/18/2015	16:25
CV0511NN-CS-18	680-115692-4	1YF18012.D	08/18/2015	16:54
CV0511NN-CS-24	680-115692-5	1YF18013.D	08/18/2015	17:22
CV0511TT-CS-6	680-115692-6	1YF18014.D	08/18/2015	17:51
CV0511TT-CS-12	680-115692-7	1YF18015.D	08/18/2015	18:19
CV0511TT-CS-18	680-115692-8	1YF18016.D	08/18/2015	18:48
CV0511TT-CS-24	680-115692-9	1YF18017.D	08/18/2015	19:17
CV0511SS-CS-6	680-115692-10	1YF18018.D	08/18/2015	19:45
CV0511SS-CS-12	680-115692-11	1YF18019.D	08/18/2015	20:13
CV0511SS-CS-18	680-115692-12	1YF18020.D	08/18/2015	20:42
CV0511SS-CS-24	680-115692-13	1YF18021.D	08/18/2015	21:10
CV0511HHH-CS-6	680-115692-14	1YF18022.D	08/18/2015	21:38
CV0511HHH-CSD-12	680-115692-15	1YF18023.D	08/18/2015	22:06
CV0511HHH-CS-12	680-115692-16	1YF18024.D	08/18/2015	22:34
CV0511HHH-CS-18	680-115692-17	1YF18025.D	08/18/2015	23:02

FORM VIII  
GC/MS SEMI VOA INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: TestAmerica Savannah Job No.: 680-115692-1  
SDG No.: 680-115692-01  
Sample No.: ICIS 680-396042/4 Date Analyzed: 08/13/2015 19:14  
Instrument ID: CMSD GC Column: RXi- 5Sil MS ID: 0.25 (mm)  
Lab File ID (Standard): 1DF13004.D Heated Purge: (Y/N) N  
Calibration ID: 40931

	NPT		ANT		PHN		
	AREA #	RT #	AREA #	RT #	AREA #	RT #	
INITIAL CALIBRATION MID-POINT	410544	5.90	235457	7.32	537929	8.50	
UPPER LIMIT	821088	6.40	470914	7.82	1075858	9.00	
LOWER LIMIT	205272	5.40	117729	6.82	268965	8.00	
LAB SAMPLE ID	CLIENT SAMPLE ID						
ICV 680-396042/9		559862	5.89	258097	7.31	599549	8.50

# Column used to flag values outside QC limits

FORM VIII  
GC/MS SEMI VOA INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: TestAmerica Savannah Job No.: 680-115692-1  
SDG No.: 680-115692-01  
Sample No.: ICIS 680-396042/4 Date Analyzed: 08/13/2015 19:14  
Instrument ID: CMSD GC Column: RXi- 5Sil MS ID: 0.25 (mm)  
Lab File ID (Standard): 1DF13004.D Heated Purge: (Y/N) N  
Calibration ID: 40931

	CRY		PRY		AREA #	RT #
	AREA #	RT #	AREA #	RT #		
INITIAL CALIBRATION MID-POINT	616321	10.63	539610	11.86		
UPPER LIMIT	1232642	11.13	1079220	12.36		
LOWER LIMIT	308161	10.13	269805	11.36		
LAB SAMPLE ID	CLIENT SAMPLE ID					
ICV 680-396042/9		667958	10.62	540744	11.83	

# Column used to flag values outside QC limits

FORM VIII  
GC/MS SEMI VOA INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: TestAmerica Savannah Job No.: 680-115692-1  
SDG No.: 680-115692-01  
Sample No.: CCVIS 680-396705/2 Date Analyzed: 08/18/2015 13:17  
Instrument ID: CMSD GC Column: RXi- 5Sil MS ID: 0.25 (mm)  
Lab File ID (Standard): 1DF18002.D Heated Purge: (Y/N) N  
Calibration ID: 40931

	NPT		ANT		PHN		
	AREA #	RT #	AREA #	RT #	AREA #	RT #	
12/24 HOUR STD	446592	5.84	253456	7.27	608623	8.45	
UPPER LIMIT	893184	6.34	506912	7.77	1217246	8.95	
LOWER LIMIT	223296	5.34	126728	6.77	304312	7.95	
LAB SAMPLE ID	CLIENT SAMPLE ID						
680-115692-19	CV0511BBB-CS-6	486074	5.84	263338	7.27	453102	8.45
680-115692-20	CV0511BBB-CS-12	559478	5.84	297056	7.26	611036	8.44

# Column used to flag values outside QC limits

FORM VIII  
GC/MS SEMI VOA INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: TestAmerica Savannah Job No.: 680-115692-1  
SDG No.: 680-115692-01  
Sample No.: CCVIS 680-396705/2 Date Analyzed: 08/18/2015 13:17  
Instrument ID: CMSD GC Column: RXi- 5Sil MS ID: 0.25 (mm)  
Lab File ID (Standard): 1DF18002.D Heated Purge: (Y/N) N  
Calibration ID: 40931

	CRY		PRY		AREA #	RT #
	AREA #	RT #	AREA #	RT #		
12/24 HOUR STD	685381	10.65	544058	11.93		
UPPER LIMIT	1370762	11.15	1088116	12.43		
LOWER LIMIT	342691	10.15	272029	11.43		
LAB SAMPLE ID	CLIENT SAMPLE ID					
680-115692-19	CV0511BBB-CS-6	368583	10.56	370176	11.75	
680-115692-20	CV0511BBB-CS-12	517780	10.57	464312	11.78	

# Column used to flag values outside QC limits

FORM VIII  
GC/MS SEMI VOA INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: TestAmerica Savannah Job No.: 680-115692-1  
SDG No.: 680-115692-01  
Sample No.: ICIS 680-396036/4 Date Analyzed: 08/13/2015 18:26  
Instrument ID: CMSK GC Column: RXi- 5Sil MS ID: 0.25 (mm)  
Lab File ID (Standard): 1KF13004.D Heated Purge: (Y/N) N  
Calibration ID: 40936

	NPT		ANT		PHN	
	AREA #	RT #	AREA #	RT #	AREA #	RT #
INITIAL CALIBRATION MID-POINT	152531	4.26	74869	6.05	144088	7.66
UPPER LIMIT	305062	4.76	149738	6.55	288176	8.16
LOWER LIMIT	76266	3.76	37435	5.55	72044	7.16
LAB SAMPLE ID	CLIENT SAMPLE ID					
ICV 680-396036/9 CCV		170670	4.26	78212	6.05	152655
						7.66

# Column used to flag values outside QC limits

FORM VIII  
GC/MS SEMI VOA INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: TestAmerica Savannah Job No.: 680-115692-1  
SDG No.: 680-115692-01  
Sample No.: ICIS 680-396036/4 Date Analyzed: 08/13/2015 18:26  
Instrument ID: CMSK GC Column: RXi- 5Sil MS ID: 0.25 (mm)  
Lab File ID (Standard): 1KF13004.D Heated Purge: (Y/N) N  
Calibration ID: 40936

	CRY		PRY		AREA #	RT #
	AREA #	RT #	AREA #	RT #		
INITIAL CALIBRATION MID-POINT	168629	10.51	159409	12.06		
UPPER LIMIT	337258	11.01	318818	12.56		
LOWER LIMIT	84315	10.01	79705	11.56		
LAB SAMPLE ID	CLIENT SAMPLE ID					
ICV 680-396036/9 CCV		184337	10.48	171725	12.01	

# Column used to flag values outside QC limits

FORM VIII  
GC/MS SEMI VOA INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: TestAmerica Savannah Job No.: 680-115692-1  
SDG No.: 680-115692-01  
Sample No.: CCVIS 680-396964/2 Date Analyzed: 08/19/2015 12:12  
Instrument ID: CMSK GC Column: RXi- 5Sil MS ID: 0.25 (mm)  
Lab File ID (Standard): 1KH19002.D Heated Purge: (Y/N) N  
Calibration ID: 40936

	NPT		ANT		PHN	
	AREA #	RT #	AREA #	RT #	AREA #	RT #
12/24 HOUR STD	155378	4.14	73802	5.92	127555	7.53
UPPER LIMIT	310756	4.64	147604	6.42	255110	8.03
LOWER LIMIT	77689	3.64	36901	5.42	63778	7.03
LAB SAMPLE ID	CLIENT SAMPLE ID					
680-115692-18	CV0511HHH-CS-24	157743	4.14	72783	5.92	126880
						7.53

# Column used to flag values outside QC limits

FORM VIII  
GC/MS SEMI VOA INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: TestAmerica Savannah Job No.: 680-115692-1  
SDG No.: 680-115692-01  
Sample No.: CCVIS 680-396964/2 Date Analyzed: 08/19/2015 12:12  
Instrument ID: CMSK GC Column: RXi- 5Sil MS ID: 0.25 (mm)  
Lab File ID (Standard): 1KH19002.D Heated Purge: (Y/N) N  
Calibration ID: 40936

	CRY		PRY		AREA #	RT #
	AREA #	RT #	AREA #	RT #		
12/24 HOUR STD	102720	10.35	82133	11.83		
UPPER LIMIT	205440	10.85	164266	12.33		
LOWER LIMIT	51360	9.85	41067	11.33		
LAB SAMPLE ID	CLIENT SAMPLE ID					
680-115692-18	CV0511HHH-CS-24	75389	10.36	57266	11.86	

# Column used to flag values outside QC limits

FORM VIII  
GC/MS SEMI VOA INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: TestAmerica Savannah Job No.: 680-115692-1  
SDG No.: 680-115692-01  
Sample No.: ICIS 680-395667/4 Date Analyzed: 08/12/2015 14:44  
Instrument ID: CMSY GC Column: RXi- 5Sil MS ID: 0.25 (mm)  
Lab File ID (Standard): 1YF12004.D Heated Purge: (Y/N) N  
Calibration ID: 40920

	NPT		ANT		PHN	
	AREA #	RT #	AREA #	RT #	AREA #	RT #
INITIAL CALIBRATION MID-POINT	80039	6.44	44355	8.05	100749	9.38
UPPER LIMIT	160078	6.94	88710	8.55	201498	9.88
LOWER LIMIT	40020	5.94	22178	7.55	50375	8.88
LAB SAMPLE ID	CLIENT SAMPLE ID					
ICV 680-395667/9		63663	6.44	35148	8.05	77470
						9.38

# Column used to flag values outside QC limits

FORM VIII  
GC/MS SEMI VOA INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: TestAmerica Savannah Job No.: 680-115692-1  
SDG No.: 680-115692-01  
Sample No.: ICIS 680-395667/4 Date Analyzed: 08/12/2015 14:44  
Instrument ID: CMSY GC Column: RXi- 5Sil MS ID: 0.25 (mm)  
Lab File ID (Standard): 1YF12004.D Heated Purge: (Y/N) N  
Calibration ID: 40920

	CRY		PRY		AREA #	RT #
	AREA #	RT #	AREA #	RT #		
INITIAL CALIBRATION MID-POINT	141781	11.87	164852	13.67		
UPPER LIMIT	283562	12.37	329704	14.17		
LOWER LIMIT	70891	11.37	82426	13.17		
LAB SAMPLE ID	CLIENT SAMPLE ID					
ICV 680-395667/9		107763	11.87	125103	13.67	

# Column used to flag values outside QC limits

FORM VIII  
GC/MS SEMI VOA INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: TestAmerica Savannah Job No.: 680-115692-1  
SDG No.: 680-115692-01  
Sample No.: CCVIS 680-396712/2 Date Analyzed: 08/18/2015 12:10  
Instrument ID: CMSY GC Column: RXi- 5Sil MS ID: 0.25 (mm)  
Lab File ID (Standard): 1YF18102.D Heated Purge: (Y/N) N  
Calibration ID: 40920

	NPT		ANT		PHN		
	AREA #	RT #	AREA #	RT #	AREA #	RT #	
12/24 HOUR STD	53416	6.37	30050	7.98	63848	9.31	
UPPER LIMIT	106832	6.87	60100	8.48	127696	9.81	
LOWER LIMIT	26708	5.87	15025	7.48	31924	8.81	
LAB SAMPLE ID	CLIENT SAMPLE ID						
MB 680-396525/21-A		43898	6.37	24378	7.97	52331	9.30
LCS 680-396525/22-A		44810	6.37	25247	7.97	53259	9.31
680-115692-1 MS	CV0511NN-CS-6 MS	46061	6.37	25126	7.97	53368	9.30
680-115692-1 MSD	CV0511NN-CS-6 MSD	47658	6.37	26244	7.97	57179	9.30
680-115692-1	CV0511NN-CS-6	50495	6.37	27779	7.97	58528	9.30
680-115692-2	CV0511NN-CSD-6	46633	6.37	25349	7.97	53406	9.30
680-115692-3	CV0511NN-CS-12	51249	6.36	27761	7.97	60430	9.30
680-115692-4	CV0511NN-CS-18	47696	6.36	26203	7.97	57913	9.30
680-115692-5	CV0511NN-CS-24	49440	6.36	26735	7.97	59335	9.30
680-115692-6	CV0511TT-CS-6	50110	6.37	27536	7.98	60498	9.30
680-115692-7	CV0511TT-CS-12	48582	6.37	26270	7.97	57732	9.30
680-115692-8	CV0511TT-CS-18	47598	6.37	25537	7.97	56007	9.30
680-115692-9	CV0511TT-CS-24	47368	6.37	25838	7.97	55990	9.30
680-115692-10	CV0511SS-CS-6	46119	6.37	25429	7.97	56475	9.30
680-115692-11	CV0511SS-CS-12	48852	6.37	26423	7.97	57770	9.30
680-115692-12	CV0511SS-CS-18	47288	6.37	26512	7.97	56959	9.30
680-115692-13	CV0511SS-CS-24	46193	6.37	26074	7.97	57434	9.30
680-115692-14	CV0511HHH-CS-6	49567	6.37	27292	7.97	60969	9.30
680-115692-15	CV0511HHH-CSD-12	45970	6.37	26041	7.97	57110	9.30
680-115692-16	CV0511HHH-CS-12	47649	6.37	26301	7.97	58210	9.30
680-115692-17	CV0511HHH-CS-18	47688	6.37	26106	7.97	55877	9.30

# Column used to flag values outside QC limits

FORM VIII  
GC/MS SEMI VOA INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: TestAmerica Savannah Job No.: 680-115692-1  
SDG No.: 680-115692-01  
Sample No.: CCVIS 680-396712/2 Date Analyzed: 08/18/2015 12:10  
Instrument ID: CMSY GC Column: RXi- 5Sil MS ID: 0.25 (mm)  
Lab File ID (Standard): 1YF18102.D Heated Purge: (Y/N) N  
Calibration ID: 40920

	CRY		PRY		AREA #	RT #
	AREA #	RT #	AREA #	RT #		
12/24 HOUR STD	85611	11.77	98322	13.54		
UPPER LIMIT	171222	12.27	196644	14.04		
LOWER LIMIT	42806	11.27	49161	13.04		
LAB SAMPLE ID	CLIENT SAMPLE ID					
MB 680-396525/21-A		70774	11.76	75692	13.52	
LCS 680-396525/22-A		77512	11.77	87666	13.53	
680-115692-1 MS	CV0511NN-CS-6 MS	77083	11.76	92682	13.52	
680-115692-1 MSD	CV0511NN-CS-6 MSD	80848	11.76	92533	13.52	
680-115692-1	CV0511NN-CS-6	83562	11.76	100771	13.52	
680-115692-2	CV0511NN-CSD-6	78138	11.76	90300	13.52	
680-115692-3	CV0511NN-CS-12	92124	11.76	98258	13.53	
680-115692-4	CV0511NN-CS-18	83740	11.76	77591	13.53	
680-115692-5	CV0511NN-CS-24	85258	11.76	77430	13.53	
680-115692-6	CV0511TT-CS-6	87836	11.76	82089	13.53	
680-115692-7	CV0511TT-CS-12	84927	11.76	79110	13.53	
680-115692-8	CV0511TT-CS-18	83162	11.76	76179	13.53	
680-115692-9	CV0511TT-CS-24	82077	11.76	74650	13.53	
680-115692-10	CV0511SS-CS-6	83168	11.76	73456	13.53	
680-115692-11	CV0511SS-CS-12	84266	11.76	74892	13.53	
680-115692-12	CV0511SS-CS-18	82178	11.76	71534	13.53	
680-115692-13	CV0511SS-CS-24	81332	11.76	65036	13.53	
680-115692-14	CV0511HHH-CS-6	86622	11.76	71423	13.53	
680-115692-15	CV0511HHH-CSD-12	80808	11.76	64133	13.52	
680-115692-16	CV0511HHH-CS-12	82157	11.76	65928	13.53	
680-115692-17	CV0511HHH-CS-18	82614	11.76	65365	13.53	

# Column used to flag values outside QC limits

FORM I  
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Savannah	Job No.: 680-115692-1
SDG No.: 680-115692-01	
Client Sample ID: CV0511NN-CS-6	Lab Sample ID: 680-115692-1
Matrix: Solid	Lab File ID: 1YF18009.D
Analysis Method: 8270D_LL_PAH	Date Collected: 08/10/2015 14:00
Extract. Method: 3546	Date Extracted: 08/17/2015 10:44
Sample wt/vol: 29.96(g)	Date Analyzed: 08/18/2015 15:27
Con. Extract Vol.: 1(mL)	Dilution Factor: 10
Injection Volume: 2(uL)	Level: (low/med) Low
% Moisture: 11.2	GPC Cleanup: (Y/N) N
Analysis Batch No.: 396712	Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	76	U	76	37
208-96-8	Acenaphthylene	76	U	76	37
120-12-7	Anthracene	63	J	76	37
56-55-3	Benzo[a]anthracene	400		76	37
50-32-8	Benzo[a]pyrene	370		76	14
205-99-2	Benzo[b]fluoranthene	570		76	37
191-24-2	Benzo[g,h,i]perylene	220		76	37
207-08-9	Benzo[k]fluoranthene	190		76	23
218-01-9	Chrysene	440		76	37
53-70-3	Dibenz(a,h)anthracene	71	J	76	37
206-44-0	Fluoranthene	760		76	37
86-73-7	Fluorene	76	U	76	37
193-39-5	Indeno[1,2,3-cd]pyrene	210		76	37
90-12-0	1-Methylnaphthalene	76	U	76	35
91-57-6	2-Methylnaphthalene	76	U	76	37
91-20-3	Naphthalene	76	U	76	37
85-01-8	Phenanthrene	290		76	27
129-00-0	Pyrene	580		76	37

CAS NO.	SURROGATE	%REC	Q	LIMITS
84-15-1	o-Terphenyl	0	D	36-131

TestAmerica Savannah  
Target Compound Quantitation Report

Data File: \\ChromNA\Savannah\ChromData\CMSY\20150818-22358.b\1YF18009.D  
 Lims ID: 680-115692-A-1-A Lab Sample ID: 680-115692-1  
 Client ID: CV0511NN-CS-6  
 Sample Type: Client  
 Inject. Date: 18-Aug-2015 15:27:30 ALS Bottle#: 9 Worklist Smp#: 9  
 Injection Vol: 2.0 ul Dil. Factor: 10.0000  
 Sample Info: 680-115692-A-1-A  
 Misc. Info.: 680-0022358-009  
 Operator ID: LIMS import Instrument ID: CMSY  
 Method: \\ChromNA\Savannah\ChromData\CMSY\20150818-22358.b\8270D\_LLPAH\_MSY.m  
 Limit Group: 8270D\_LL\_PAH  
 Last Update: 19-Aug-2015 11:22:28 Calib Date: 12-Aug-2015 16:37:30  
 Integrator: RTE ID Type: Deconvolution ID  
 Quant Method: Internal Standard Quant By: Initial Calibration  
 Last ICAL File: \\ChromNA\Savannah\ChromData\CMSY\20150812-22174.b\1YF12008.D  
 Column 1 : Restek RXi-5Sil MS ( 0.25 mm) Det: MS SCAN  
 Process Host: XAWRK003

First Level Reviewer: millsj Date: 19-Aug-2015 10:42:55

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/ml	Flags
* 1 Naphthalene-d8	136	6.365	6.366	-0.001	99	50495	2.00	
* 2 Acenaphthene-d10	164	7.970	7.975	-0.005	96	27779	2.00	
* 3 Phenanthrene-d10	188	9.302	9.307	-0.005	97	58528	2.00	
* 4 Chrysene-d12	240	11.757	11.773	-0.016	98	83562	2.00	
* 5 Perylene-d12	264	13.522	13.538	-0.016	98	100771	2.00	
15 Dibenzofuran	168	8.163	8.163	0.000	79	572	0.0260	
17 Phenanthrene	178	9.323	9.329	-0.006	96	21669	0.7747	
18 Anthracene	178	9.366	9.371	-0.005	68	4002	0.1666	
19 Fluoranthene	202	10.388	10.398	-0.010	99	68383	2.03	
13 Benzidine_T	184	10.730	10.521	0.209	0	577	NC	
20 Pyrene	202	10.591	10.602	-0.011	98	56123	1.54	
21 Benzo[a]anthracene	228	11.746	11.762	-0.016	97	42836	1.07	
22 Chrysene	228	11.784	11.805	-0.021	99	44485	1.16	
23 Benzo[b]fluoranthene	252	13.025	13.041	-0.017	96	74974	1.52	
24 Benzo[k]fluoranthene	252	13.051	13.078	-0.027	96	24894	0.5178	
25 Benzo[a]pyrene	252	13.447	13.469	-0.022	98	44614	0.9741	
26 Indeno[1,2,3-cd]pyrene	276	15.009	15.025	-0.016	96	34262	0.5577	
27 Dibenz(a,h)anthracene	278	15.020	15.041	-0.021	94	10483	0.1876	
28 Benzo[g,h,i]perylene	276	15.378	15.399	-0.021	95	30682	0.5760	

### QC Flag Legend

Processing Flags

NC - Not Calibrated

### Reagents:

SM-LLISTD_00128	Amount Added: 10.00	Units: uL
		Run Reagent

Report Date: 19-Aug-2015 11:22:35

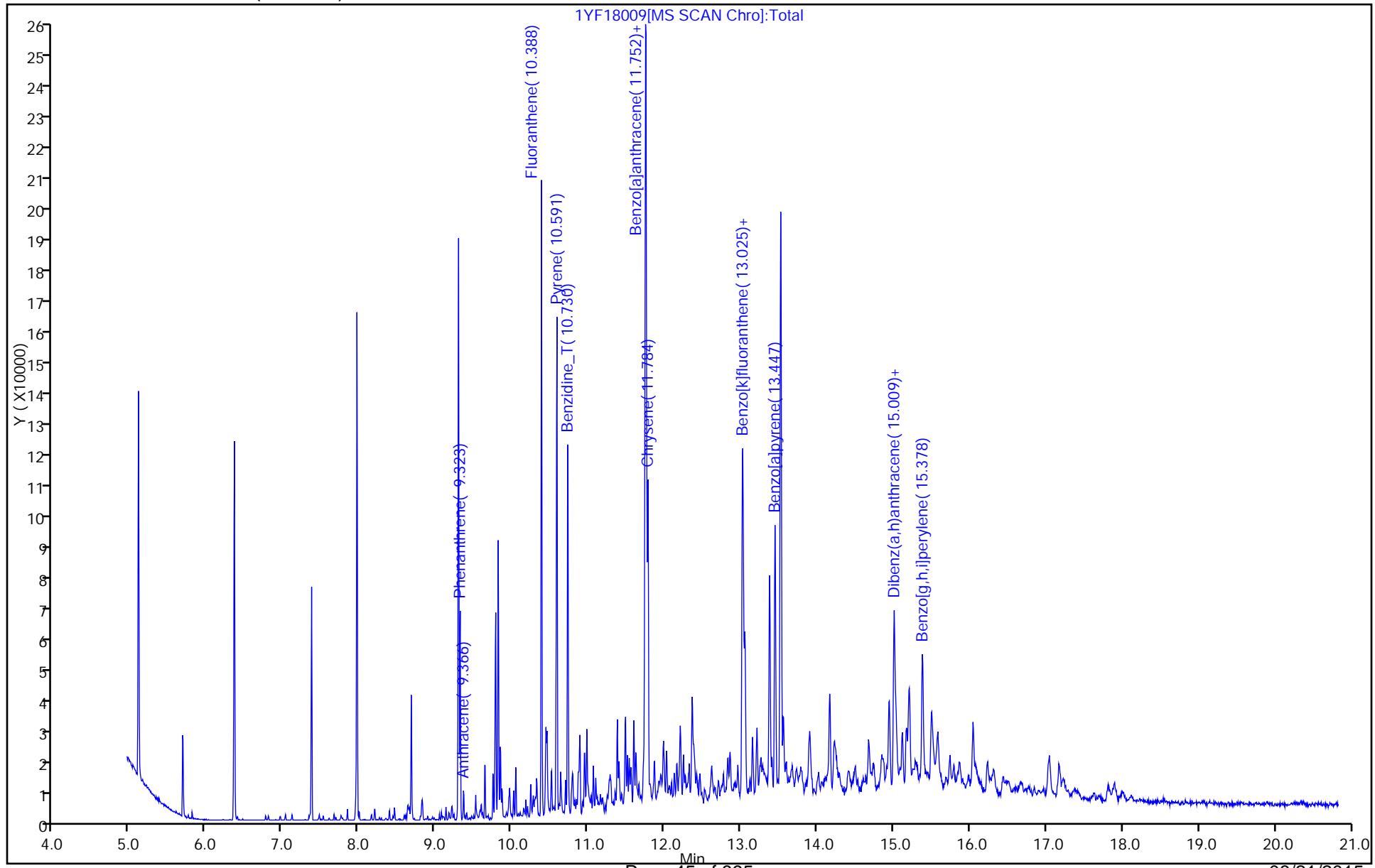
Chrom Revision: 2.2 23-Jul-2015 08:26:08

## TestAmerica Savannah

Data File: \\ChromNA\\Savannah\\ChromData\\CMSY\\20150818-22358.b\\1YF18009.D  
Injection Date: 18-Aug-2015 15:27:30 Instrument ID: CMSY  
Lims ID: 680-115692-A-1-A Lab Sample ID: 680-115692-1  
Client ID: CV0511NN-CS-6  
Injection Vol: 2.0 ul Dil. Factor: 10.0000  
Method: 8270D\_LLPAH\_MSY Limit Group: 8270D\_LL\_PAH  
Column: Restek RXi-5Sil MS ( 0.25 mm)

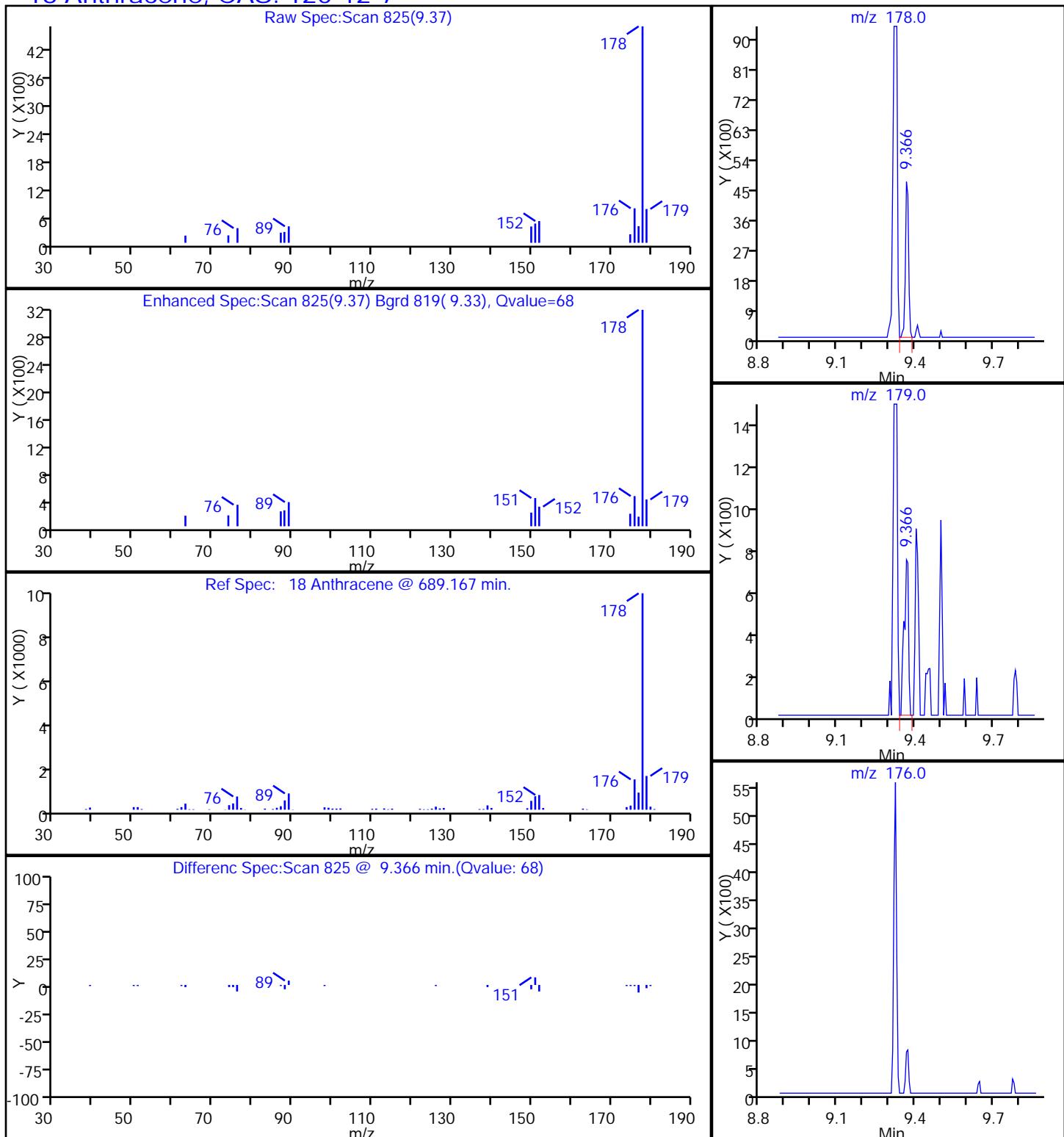
Operator ID: LIMS import  
Worklist Smp#: 9

ALS Bottle#: 9

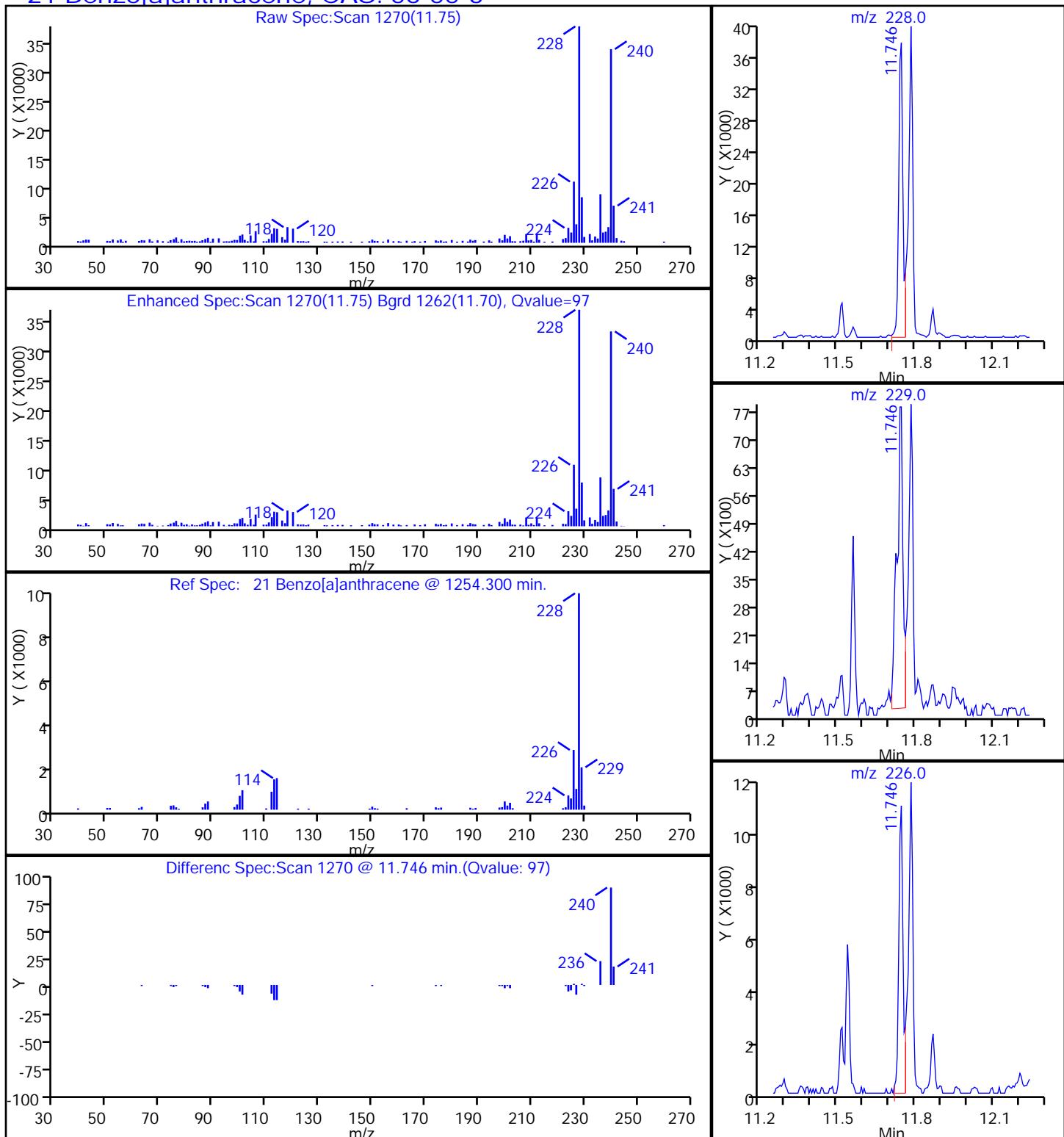


TestAmerica Savannah  
 Data File: \\ChromNA\\Savannah\\ChromData\\CMSY\\20150818-22358.b\\1YF18009.D  
 Injection Date: 18-Aug-2015 15:27:30 Instrument ID: CMSY  
 Lims ID: 680-115692-A-1-A Lab Sample ID: 680-115692-1  
 Client ID: CV0511NN-CS-6  
 Operator ID: LIMS import ALS Bottle#: 9 Worklist Smp#: 9  
 Injection Vol: 2.0 ul Dil. Factor: 10.0000  
 Method: 8270D\_LLPAH\_MSY Limit Group: 8270D\_LL\_PAH  
 Column: Restek RXi-5Sil MS ( 0.25 mm) Detector: MS SCAN

## 18 Anthracene, CAS: 120-12-7

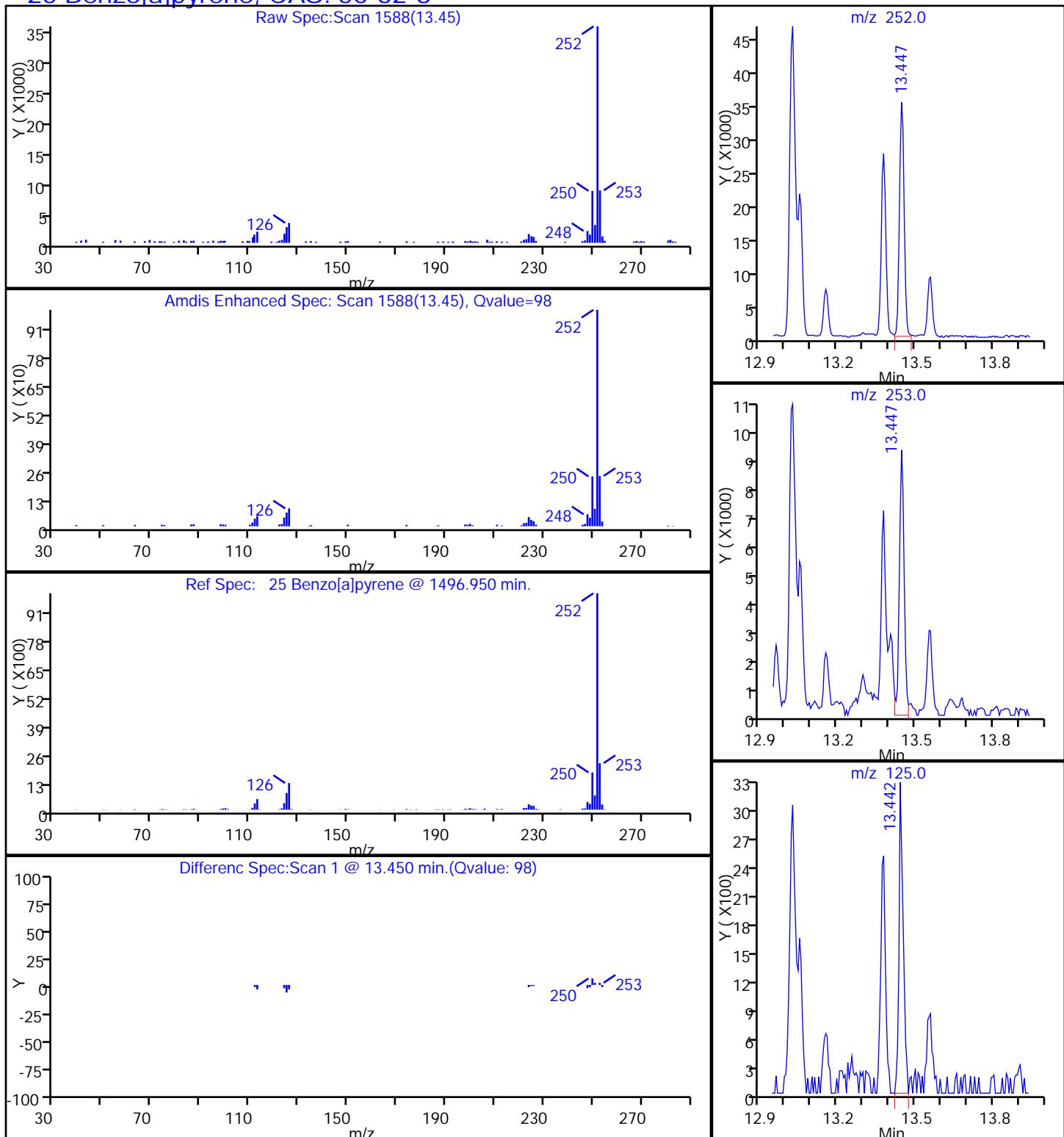


TestAmerica Savannah  
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 Injection Date: 18-Aug-2015 15:27:30 Instrument ID: CMSY  
 Lims ID: 680-115692-A-1-A Lab Sample ID: 680-115692-1  
 Client ID: CV0511NN-CS-6  
 Operator ID: LIMS import ALS Bottle#: 9 Worklist Smp#: 9  
 Injection Vol: 2.0 ul Dil. Factor: 10.0000  
 Method: 8270D\_LLPAH\_MSY Limit Group: 8270D\_LL\_PAH  
 Column: Restek RXi-5Sil MS ( 0.25 mm) Detector MS SCAN

**21 Benzo[a]anthracene, CAS: 56-55-3**

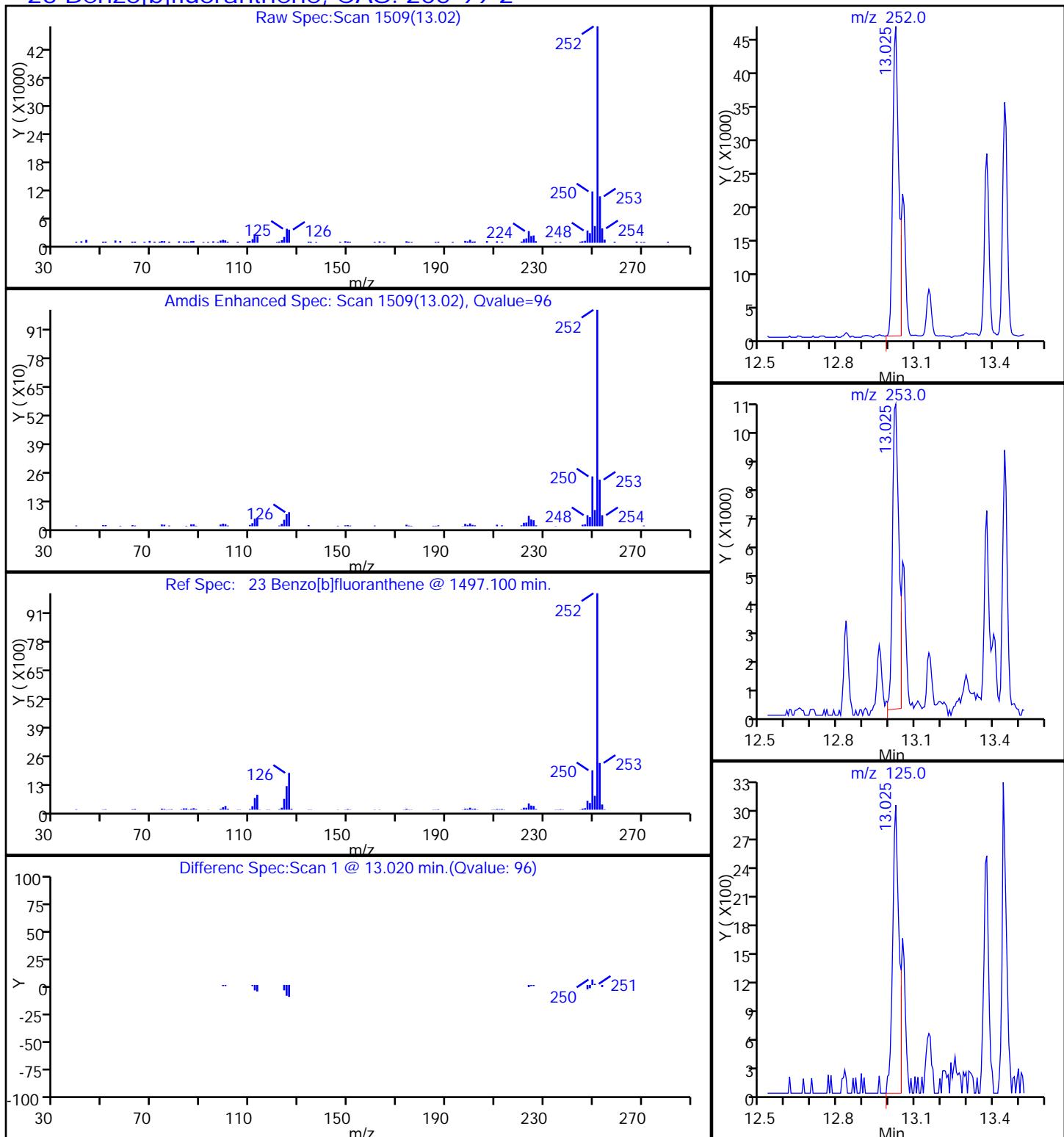
TestAmerica Savannah  
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 Injection Date: 18-Aug-2015 15:27:30 Instrument ID: CMSY  
 Lims ID: 680-115692-A-1-A Lab Sample ID: 680-115692-1  
 Client ID: CV0511NN-CS-6  
 Operator ID: LIMS import ALS Bottle#: 9 Worklist Smp#: 9  
 Injection Vol: 2.0 ul Dil. Factor: 10.0000  
 Method: 8270D\_LLPAH\_MSY Limit Group: 8270D\_LL\_PAH  
 Column: Restek RXi-5Sil MS ( 0.25 mm) Detector: MS SCAN

### 25 Benzo[a]pyrene, CAS: 50-32-8

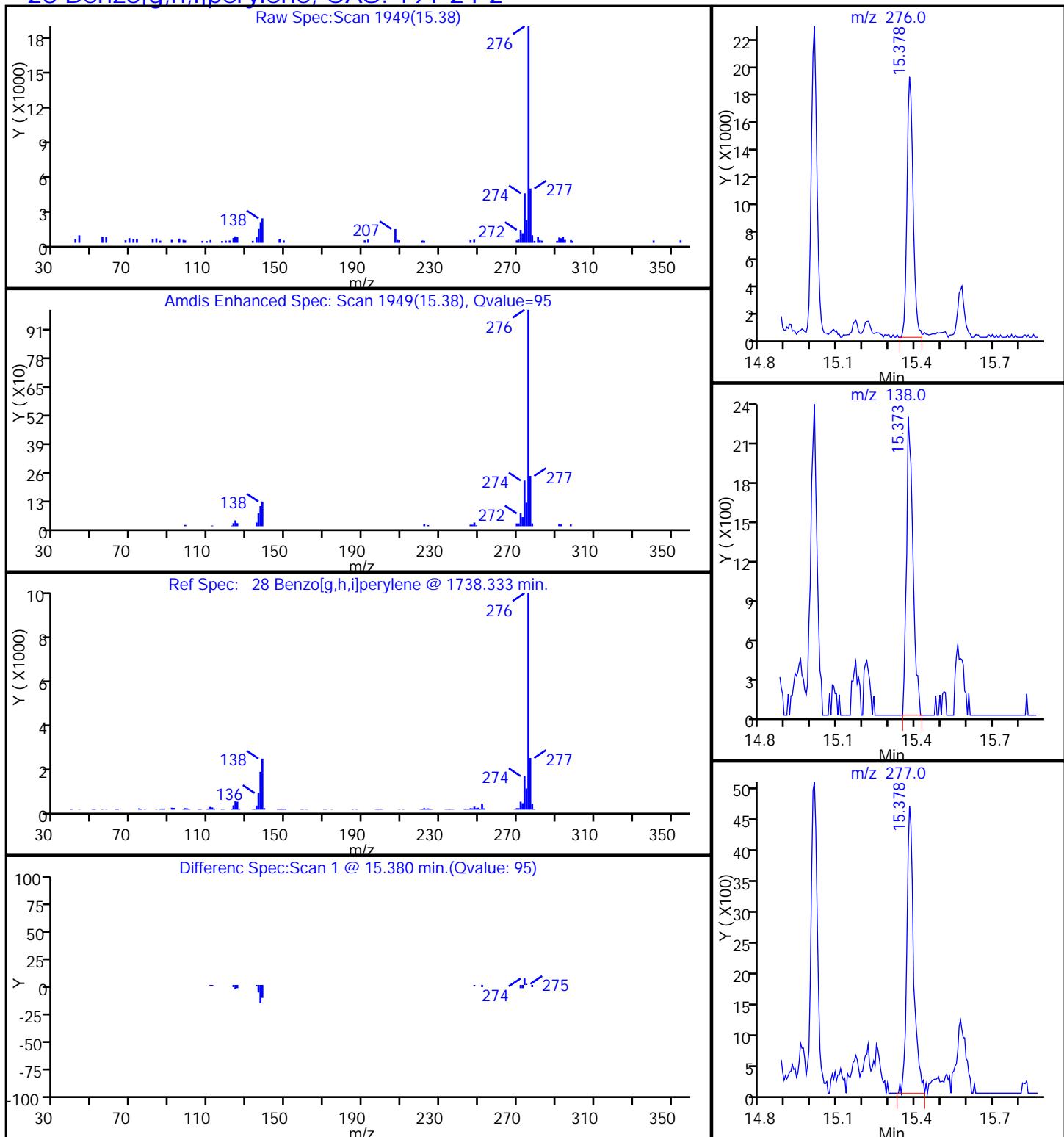


TestAmerica Savannah  
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 Injection Date: 18-Aug-2015 15:27:30 Instrument ID: CMSY  
 Lims ID: 680-115692-A-1-A Lab Sample ID: 680-115692-1  
 Client ID: CV0511NN-CS-6  
 Operator ID: LIMS import ALS Bottle#: 9 Worklist Smp#: 9  
 Injection Vol: 2.0 ul Dil. Factor: 10.0000  
 Method: 8270D\_LLPAH\_MSY Limit Group: 8270D\_LL\_PAH  
 Column: Restek RXi-5Sil MS ( 0.25 mm) Detector MS SCAN

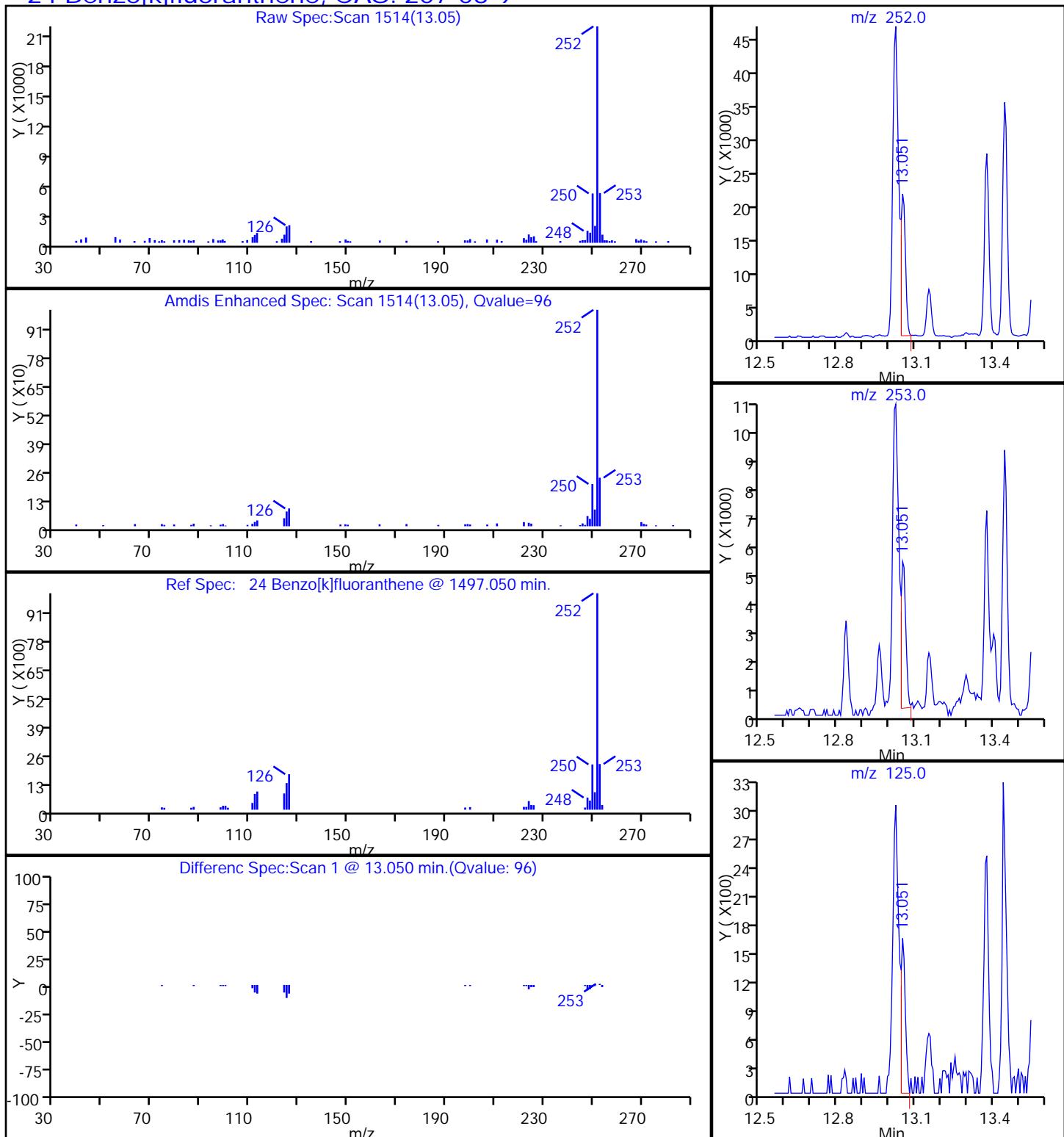
### 23 Benzo[b]fluoranthene, CAS: 205-99-2



TestAmerica Savannah  
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 Injection Date: 18-Aug-2015 15:27:30 Instrument ID: CMSY  
 Lims ID: 680-115692-A-1-A Lab Sample ID: 680-115692-1  
 Client ID: CV0511NN-CS-6  
 Operator ID: LIMS import ALS Bottle#: 9 Worklist Smp#: 9  
 Injection Vol: 2.0 ul Dil. Factor: 10.0000  
 Method: 8270D\_LLPAH\_MSY Limit Group: 8270D\_LL\_PAH  
 Column: Restek RXi-5Sil MS ( 0.25 mm) Detector MS SCAN

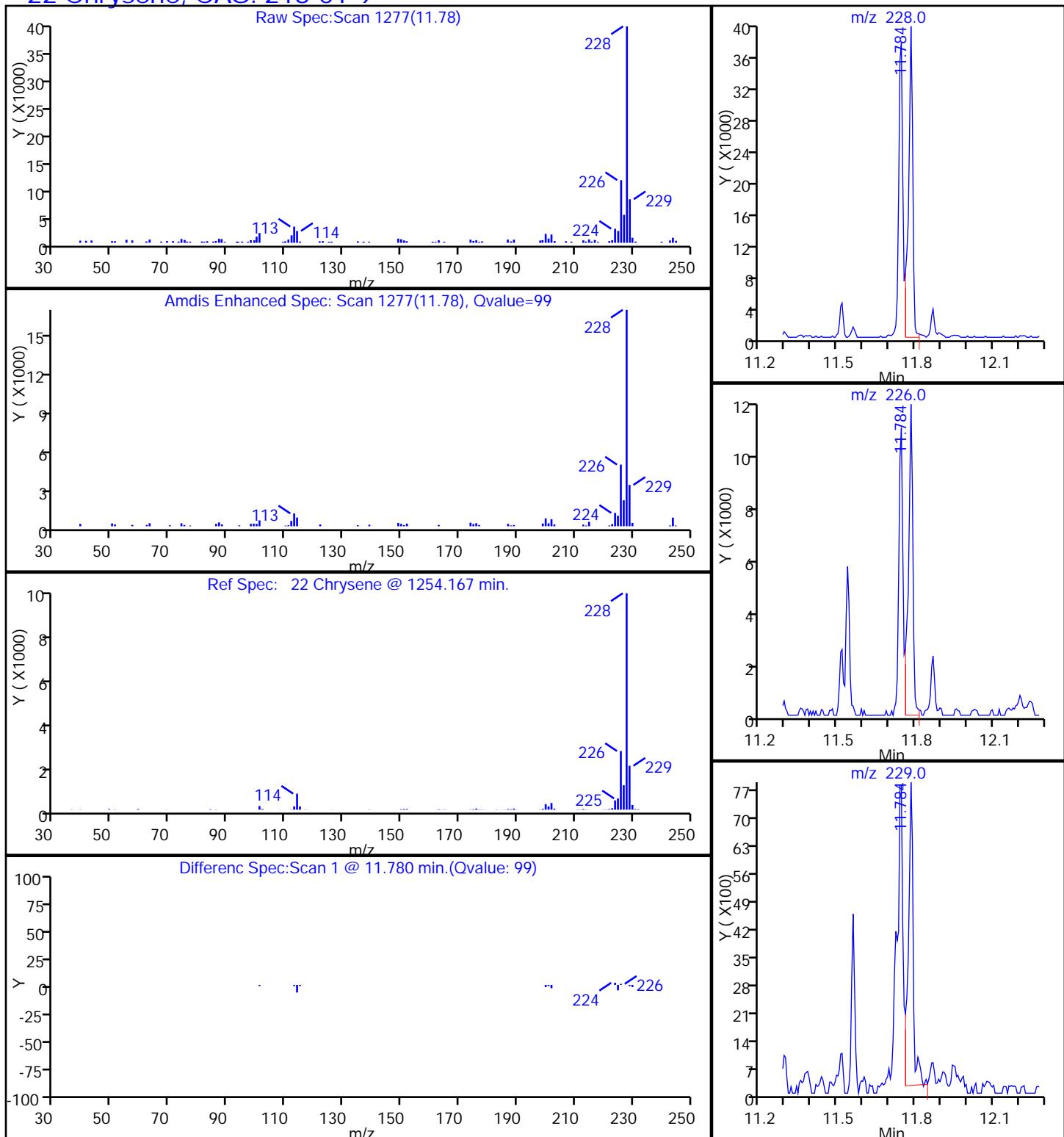
**28 Benzo[g,h,i]perylene, CAS: 191-24-2**

TestAmerica Savannah  
 Data File: \\ChromNA\\Savannah\\ChromData\\CMSY\\20150818-22358.b\\1YF18009.D  
 Injection Date: 18-Aug-2015 15:27:30 Instrument ID: CMSY  
 Lims ID: 680-115692-A-1-A Lab Sample ID: 680-115692-1  
 Client ID: CV0511NN-CS-6  
 Operator ID: LIMS import ALS Bottle#: 9 Worklist Smp#: 9  
 Injection Vol: 2.0 ul Dil. Factor: 10.0000  
 Method: 8270D\_LLPAH\_MSY Limit Group: 8270D\_LL\_PAH  
 Column: Restek RXi-5Sil MS ( 0.25 mm) Detector MS SCAN

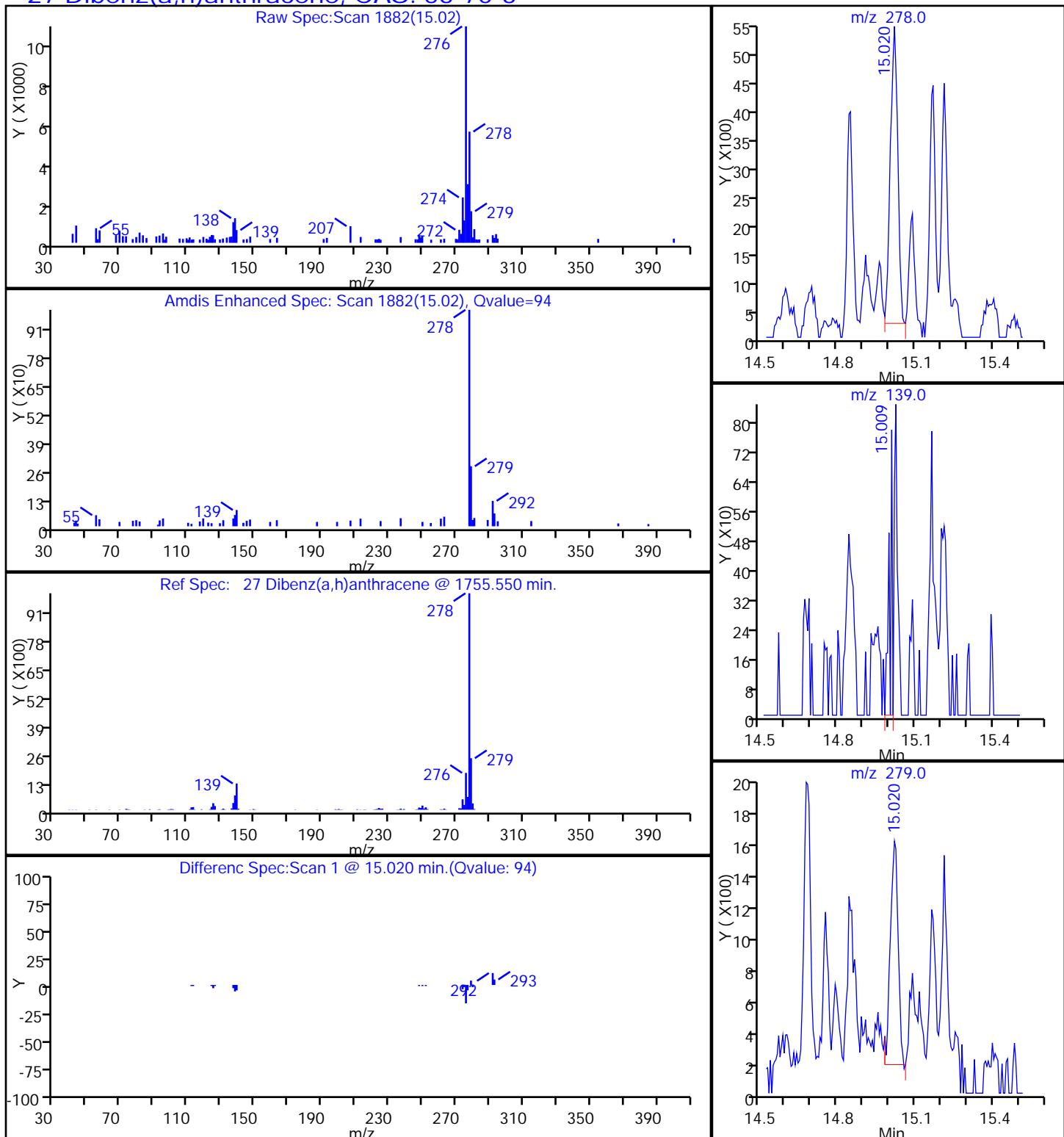
**24 Benzo[k]fluoranthene, CAS: 207-08-9**

TestAmerica Savannah  
 Data File: \\ChromNA\\Savannah\\ChromData\\CMSY\\20150818-22358.b\\1YF18009.D  
 Injection Date: 18-Aug-2015 15:27:30 Instrument ID: CMSY  
 Lims ID: 680-115692-A-1-A Lab Sample ID: 680-115692-1  
 Client ID: CV0511NN-CS-6  
 Operator ID: LIMS import ALS Bottle#: 9 Worklist Smp#: 9  
 Injection Vol: 2.0 ul Dil. Factor: 10.0000  
 Method: 8270D\_LLPAH\_MSY Limit Group: 8270D\_LL\_PAH  
 Column: Restek RXi-5Sil MS ( 0.25 mm) Detector: MS SCAN

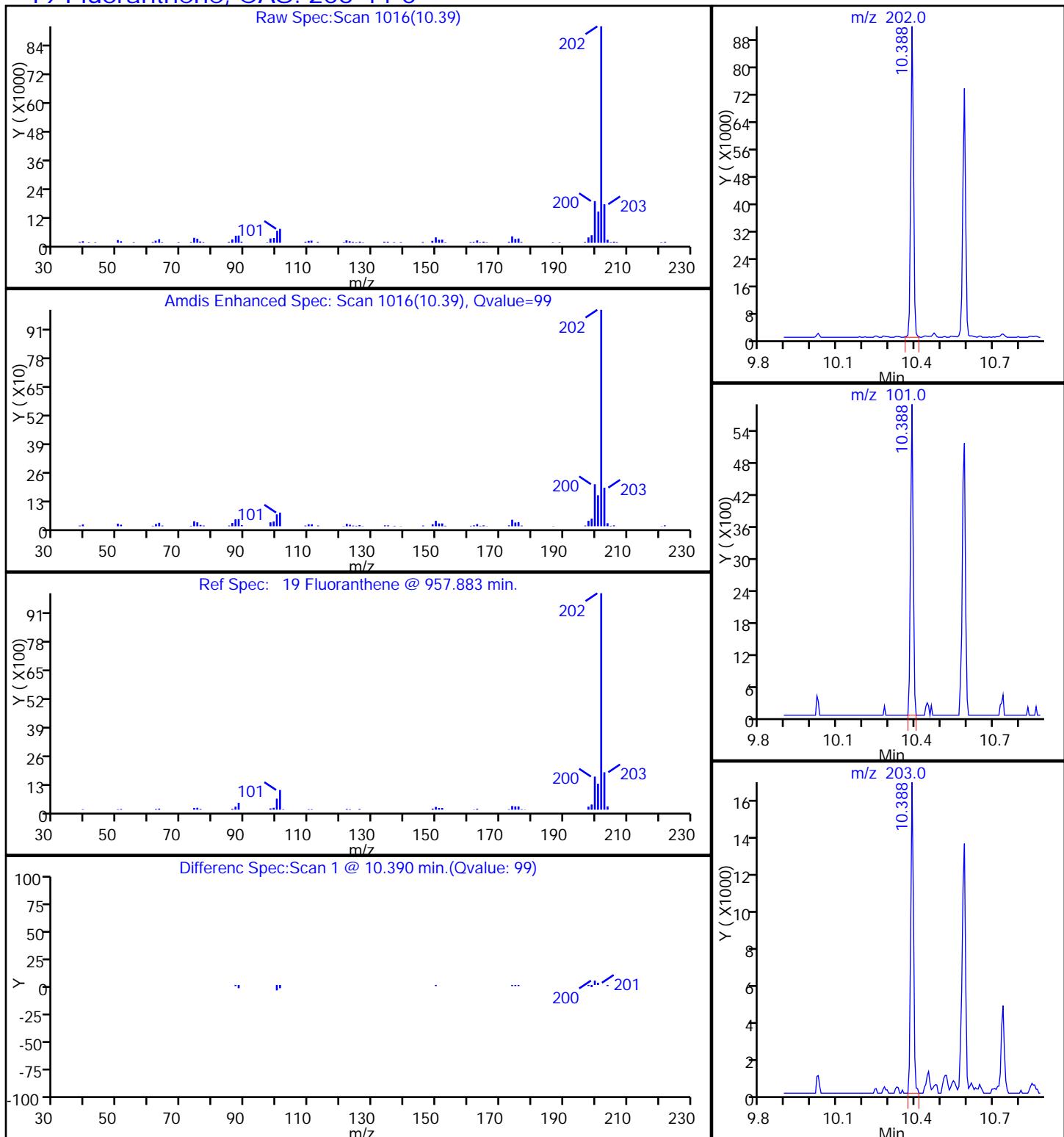
### 22 Chrysene, CAS: 218-01-9



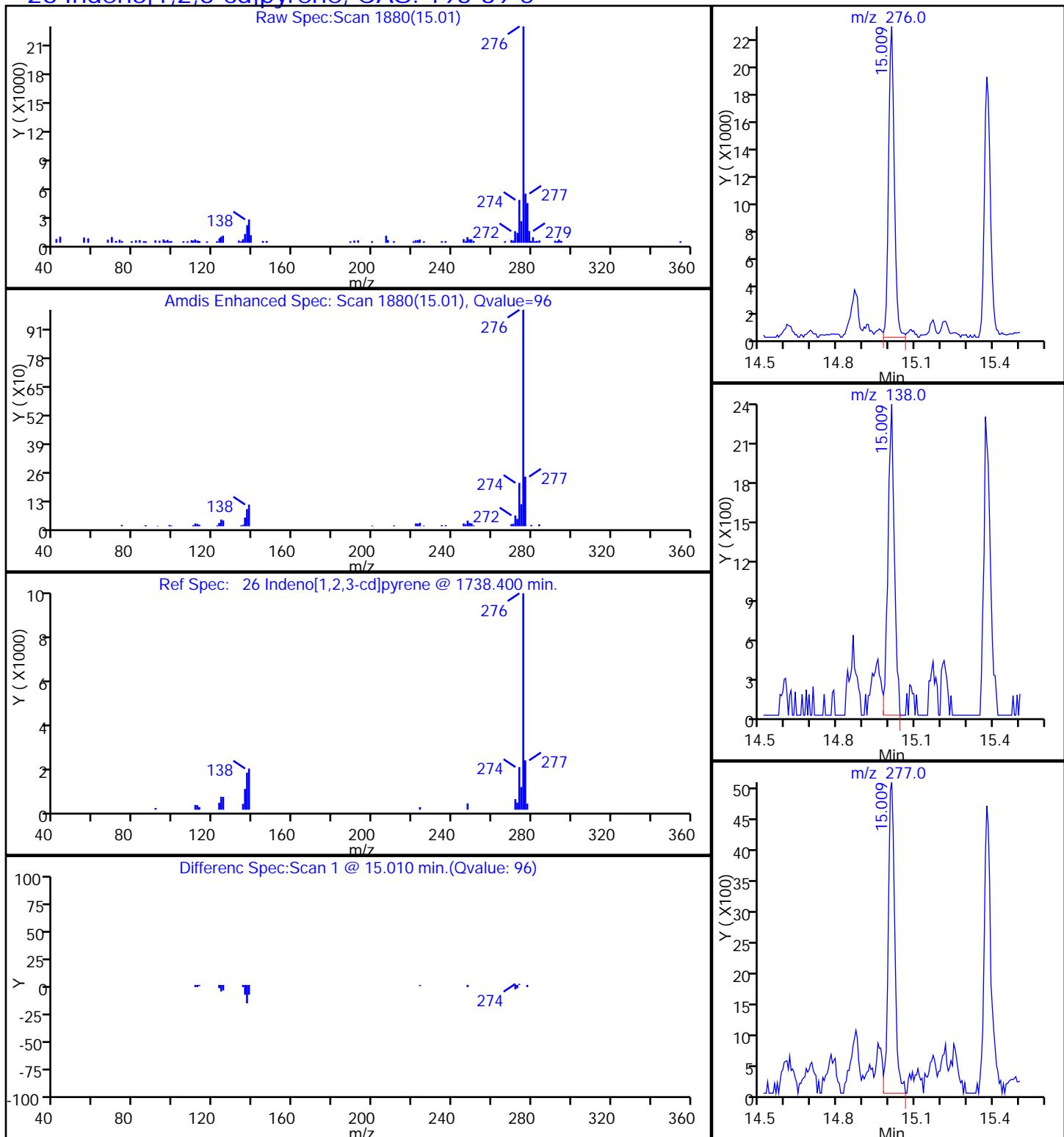
TestAmerica Savannah  
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 Injection Date: 18-Aug-2015 15:27:30 Instrument ID: CMSY  
 Lims ID: 680-115692-A-1-A Lab Sample ID: 680-115692-1  
 Client ID: CV0511NN-CS-6  
 Operator ID: LIMS import ALS Bottle#: 9 Worklist Smp#: 9  
 Injection Vol: 2.0 ul Dil. Factor: 10.0000  
 Method: 8270D\_LLPAH\_MSY Limit Group: 8270D\_LL\_PAH  
 Column: Restek RXi-5Sil MS ( 0.25 mm) Detector MS SCAN

**27 Dibenz(a,h)anthracene, CAS: 53-70-3**

TestAmerica Savannah  
 Data File: \\ChromNA\\Savannah\\ChromData\\CMSY\\20150818-22358.b\\1YF18009.D  
 Injection Date: 18-Aug-2015 15:27:30 Instrument ID: CMSY  
 Lims ID: 680-115692-A-1-A Lab Sample ID: 680-115692-1  
 Client ID: CV0511NN-CS-6  
 Operator ID: LIMS import ALS Bottle#: 9 Worklist Smp#: 9  
 Injection Vol: 2.0 ul Dil. Factor: 10.0000  
 Method: 8270D\_LLPAH\_MSY Limit Group: 8270D\_LL\_PAH  
 Column: Restek RXi-5Sil MS ( 0.25 mm) Detector MS SCAN

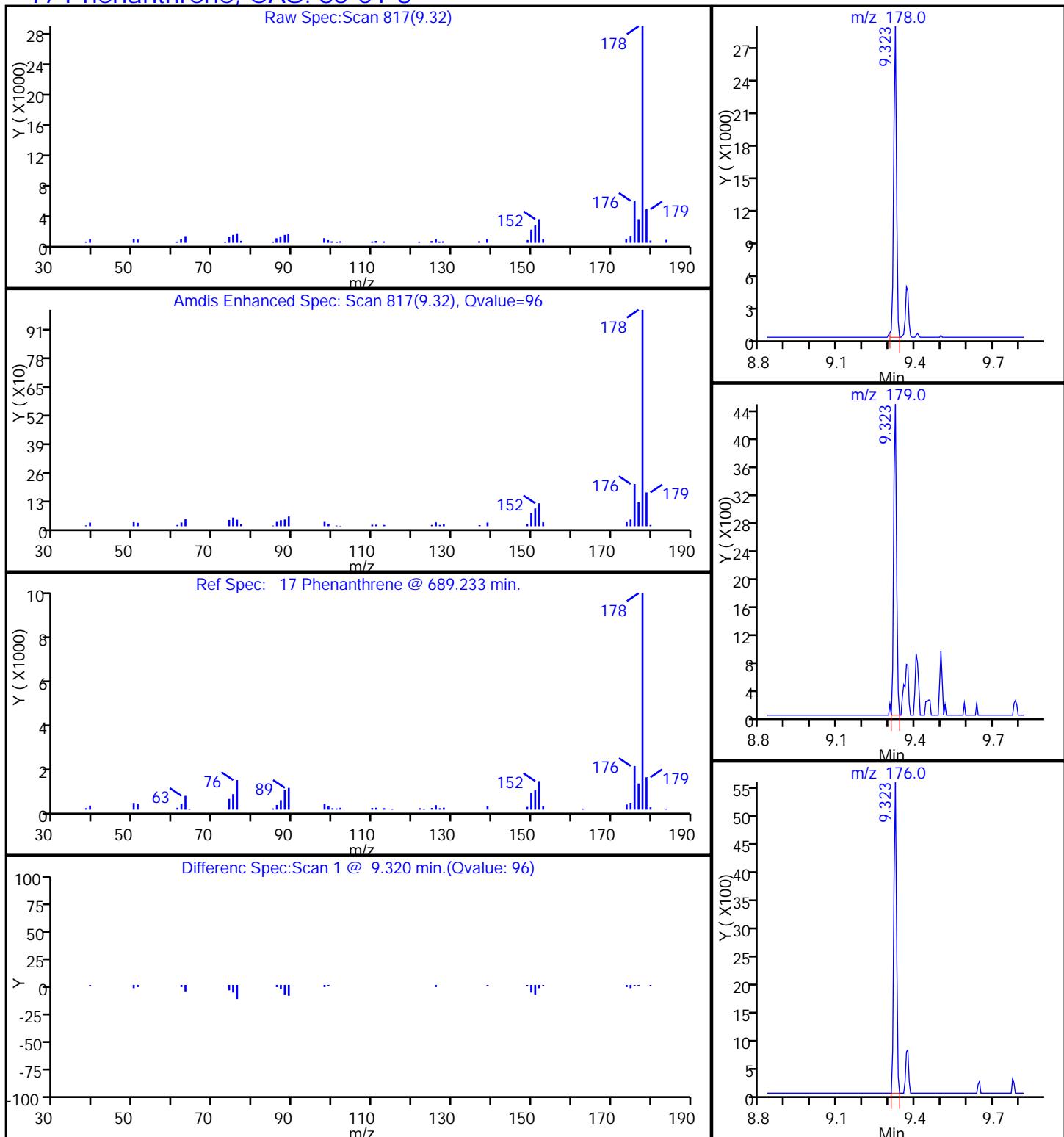
**19 Fluoranthene, CAS: 206-44-0**

TestAmerica Savannah  
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 Injection Date: 18-Aug-2015 15:27:30 Instrument ID: CMSY  
 Lims ID: 680-115692-A-1-A Lab Sample ID: 680-115692-1  
 Client ID: CV0511NN-CS-6  
 Operator ID: LIMS import ALS Bottle#: 9 Worklist Smp#: 9  
 Injection Vol: 2.0 ul Dil. Factor: 10.0000  
 Method: 8270D\_LLPAH\_MSY Limit Group: 8270D\_LL\_PAH  
 Column: Restek RXi-5Sil MS ( 0.25 mm) Detector MS SCAN

**26 Indeno[1,2,3-cd]pyrene, CAS: 193-39-5**

TestAmerica Savannah  
 Data File: \\ChromNA\\Savannah\\ChromData\\CMSY\\20150818-22358.b\\1YF18009.D  
 Injection Date: 18-Aug-2015 15:27:30 Instrument ID: CMSY  
 Lims ID: 680-115692-A-1-A Lab Sample ID: 680-115692-1  
 Client ID: CV0511NN-CS-6  
 Operator ID: LIMS import ALS Bottle#: 9 Worklist Smp#: 9  
 Injection Vol: 2.0 ul Dil. Factor: 10.0000  
 Method: 8270D\_LLPAH\_MSY Limit Group: 8270D\_LL\_PAH  
 Column: Restek RXi-5Sil MS ( 0.25 mm) Detector: MS SCAN

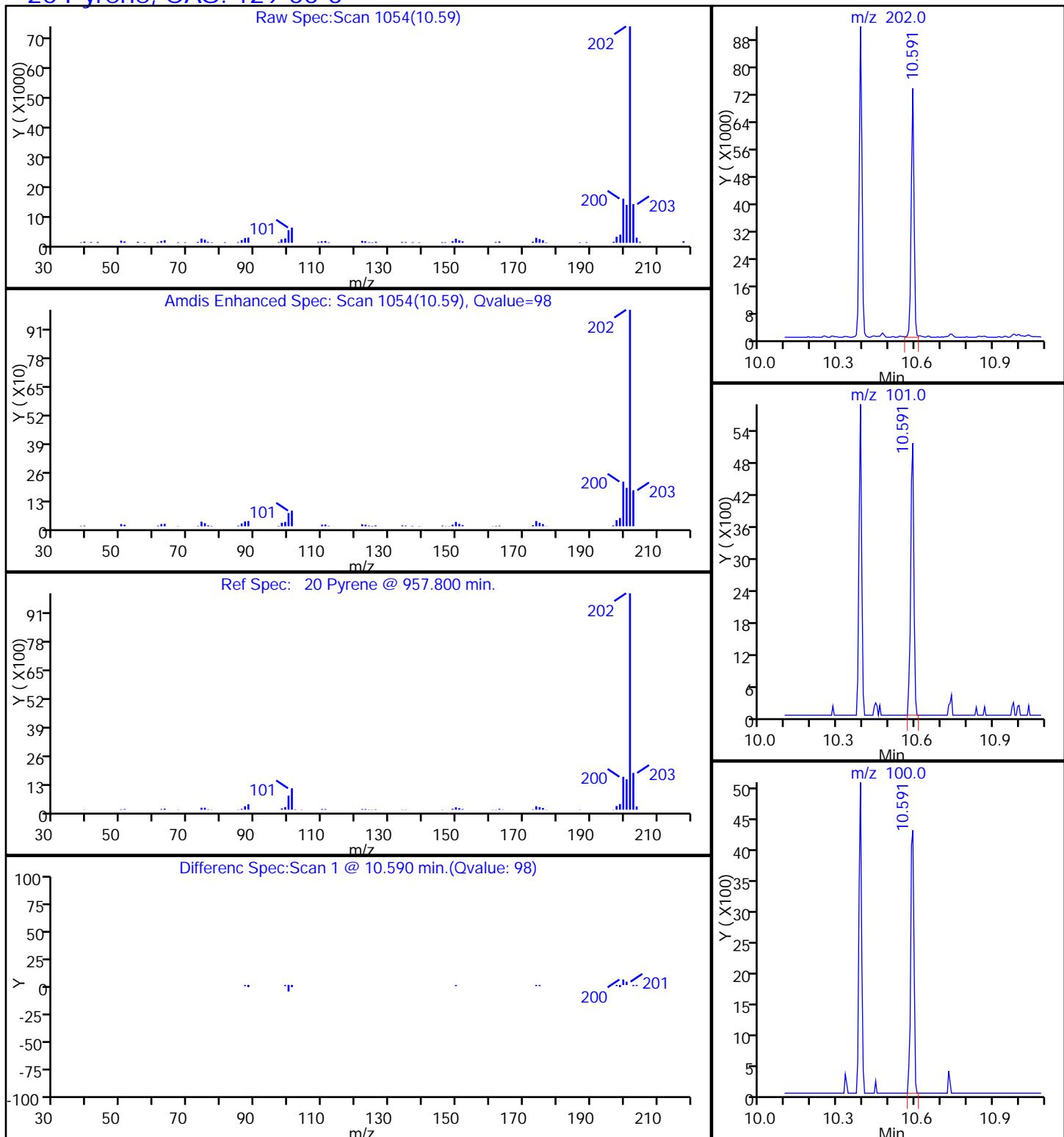
### 17 Phenanthrene, CAS: 85-01-8



## TestAmerica Savannah

Data File: \\ChromNA\\Savannah\\ChromData\CMSY\\20150818-22358.b\\1YF18009.D  
 Injection Date: 18-Aug-2015 15:27:30 Instrument ID: CMSY  
 Lims ID: 680-115692-A-1-A Lab Sample ID: 680-115692-1  
 Client ID: CV0511NN-CS-6  
 Operator ID: LIMS import ALS Bottle#: 9 Worklist Smp#: 9  
 Injection Vol: 2.0 ul Dil. Factor: 10.0000  
 Method: 8270D\_LLPAH\_MSY Limit Group: 8270D\_LL\_PAH  
 Column: Restek RXi-5Sil MS ( 0.25 mm) Detector MS SCAN

## 20 Pyrene, CAS: 129-00-0



FORM I  
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Savannah	Job No.: 680-115692-1
SDG No.: 680-115692-01	
Client Sample ID: CV0511NN-CSD-6	Lab Sample ID: 680-115692-2
Matrix: Solid	Lab File ID: 1YF18010.D
Analysis Method: 8270D_LL_PAH	Date Collected: 08/10/2015 14:00
Extract. Method: 3546	Date Extracted: 08/17/2015 10:44
Sample wt/vol: 29.95(g)	Date Analyzed: 08/18/2015 15:56
Con. Extract Vol.: 1(mL)	Dilution Factor: 10
Injection Volume: 2(uL)	Level: (low/med) Low
% Moisture: 12.0	GPC Cleanup: (Y/N) N
Analysis Batch No.: 396712	Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	38	J	76	38
208-96-8	Acenaphthylene	76	U	76	38
120-12-7	Anthracene	88		76	38
56-55-3	Benzo[a]anthracene	380		76	38
50-32-8	Benzo[a]pyrene	330		76	14
205-99-2	Benzo[b]fluoranthene	530		76	38
191-24-2	Benzo[g,h,i]perylene	180		76	38
207-08-9	Benzo[k]fluoranthene	180		76	23
218-01-9	Chrysene	390		76	38
53-70-3	Dibenz(a,h)anthracene	70	J	76	38
206-44-0	Fluoranthene	730		76	38
86-73-7	Fluorene	76	U	76	38
193-39-5	Indeno[1,2,3-cd]pyrene	170		76	38
90-12-0	1-Methylnaphthalene	76	U	76	35
91-57-6	2-Methylnaphthalene	76	U	76	38
91-20-3	Naphthalene	76	U	76	38
85-01-8	Phenanthrene	330		76	27
129-00-0	Pyrene	510		76	38

CAS NO.	SURROGATE	%REC	Q	LIMITS
84-15-1	o-Terphenyl	0	D	36-131

TestAmerica Savannah  
Target Compound Quantitation Report

Data File: \\ChromNA\Savannah\ChromData\CMSY\20150818-22358.b\1YF18010.D  
 Lims ID: 680-115692-A-2-A Lab Sample ID: 680-115692-2  
 Client ID: CV0511NN-CSD-6  
 Sample Type: Client  
 Inject. Date: 18-Aug-2015 15:56:30 ALS Bottle#: 10 Worklist Smp#: 10  
 Injection Vol: 2.0 ul Dil. Factor: 10.0000  
 Sample Info: 680-115692-A-2-A  
 Misc. Info.: 680-0022358-010  
 Operator ID: LIMS import Instrument ID: CMSY  
 Method: \\ChromNA\Savannah\ChromData\CMSY\20150818-22358.b\8270D\_LLPAH\_MSY.m  
 Limit Group: 8270D\_LL\_PAH  
 Last Update: 19-Aug-2015 11:22:28 Calib Date: 12-Aug-2015 16:37:30  
 Integrator: RTE ID Type: Deconvolution ID  
 Quant Method: Internal Standard Quant By: Initial Calibration  
 Last ICAL File: \\ChromNA\Savannah\ChromData\CMSY\20150812-22174.b\1YF12008.D  
 Column 1 : Restek RXi-5Sil MS ( 0.25 mm) Det: MS SCAN  
 Process Host: XAWRK003

First Level Reviewer: millsj Date: 19-Aug-2015 10:43:57

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/ml	Flags
* 1 Naphthalene-d8	136	6.366	6.366	0.000	99	46633	2.00	
* 2 Acenaphthene-d10	164	7.970	7.975	-0.005	97	25349	2.00	
* 3 Phenanthrene-d10	188	9.302	9.307	-0.005	97	53406	2.00	
* 4 Chrysene-d12	240	11.757	11.773	-0.016	98	78138	2.00	
* 5 Perylene-d12	264	13.522	13.538	-0.016	98	90300	2.00	
14 Acenaphthene	153	8.002	8.002	0.000	90	1502	0.0991	
17 Phenanthrene	178	9.323	9.329	-0.006	97	22497	0.8814	
18 Anthracene	178	9.366	9.371	-0.005	74	5079	0.2318	
19 Fluoranthene	202	10.388	10.398	-0.010	98	58906	1.92	
20 Pyrene	202	10.591	10.602	-0.011	98	46122	1.35	
21 Benzo[a]anthracene	228	11.746	11.762	-0.016	96	37937	1.01	
22 Chrysene	228	11.784	11.805	-0.021	99	37033	1.03	
23 Benzo[b]fluoranthene	252	13.019	13.041	-0.022	97	61780	1.40	
24 Benzo[k]fluoranthene	252	13.051	13.078	-0.027	96	20636	0.4791	
25 Benzo[a]pyrene	252	13.447	13.469	-0.022	98	35548	0.8662	
26 Indeno[1,2,3-cd]pyrene	276	15.009	15.025	-0.016	96	25775	0.4487	
27 Dibenz(a,h)anthracene	278	15.014	15.041	-0.027	94	9181	0.1833	
28 Benzo[g,h,i]perylene	276	15.378	15.399	-0.021	95	22412	0.4695	

**Reagents:**

SM-LLISTD\_00128 Amount Added: 10.00 Units: uL Run Reagent

Report Date: 19-Aug-2015 11:22:37

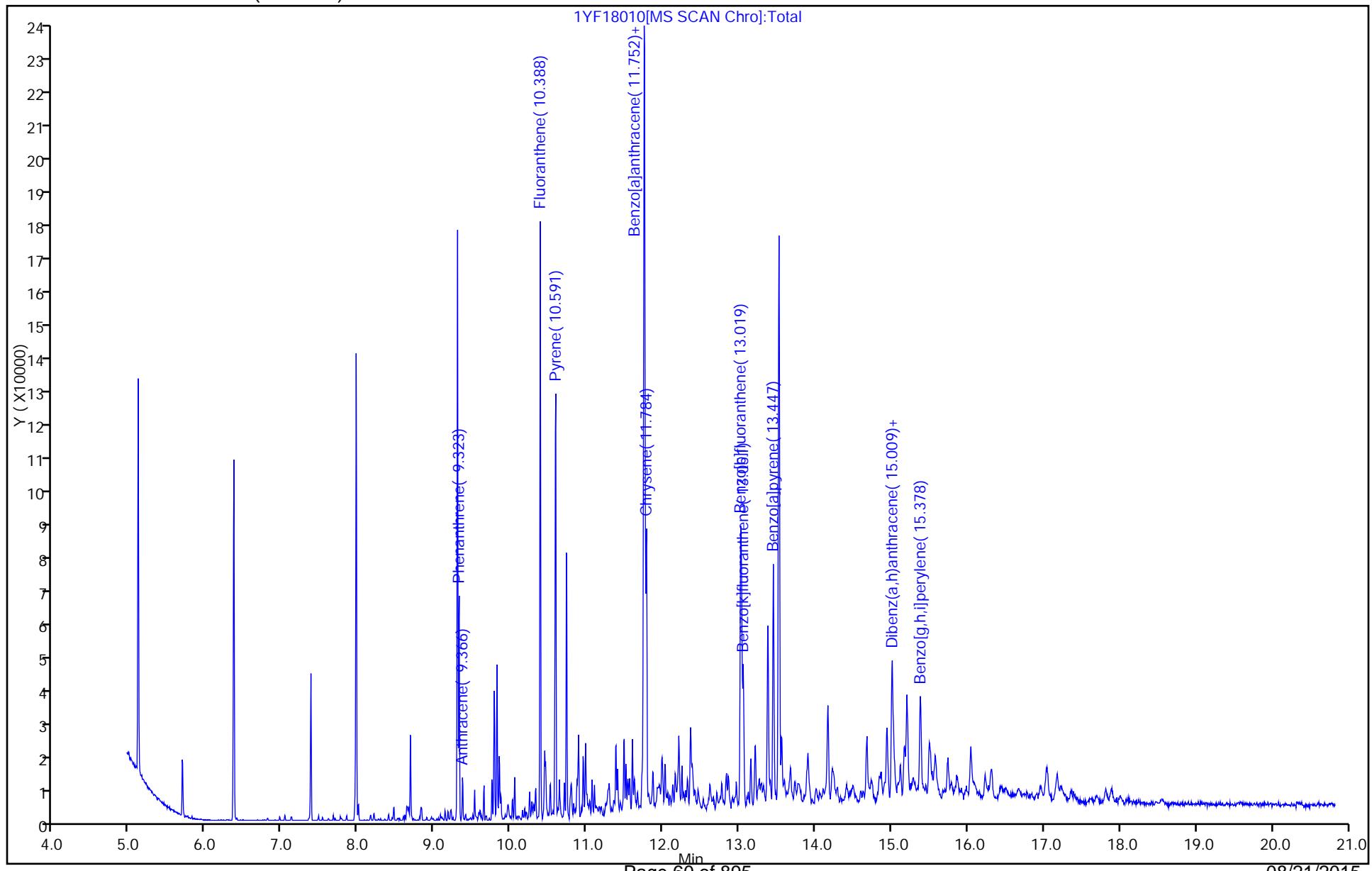
Chrom Revision: 2.2 23-Jul-2015 08:26:08

## TestAmerica Savannah

Data File: \\ChromNA\\Savannah\\ChromData\\CMSY\\20150818-22358.b\\1YF18010.D  
Injection Date: 18-Aug-2015 15:56:30 Instrument ID: CMSY  
Lims ID: 680-115692-A-2-A Lab Sample ID: 680-115692-2  
Client ID: CV0511NN-CSD-6  
Injection Vol: 2.0 ul Dil. Factor: 10.0000  
Method: 8270D\_LLPAH\_MSY Limit Group: 8270D\_LL\_PAH  
Column: Restek RXi-5Sil MS ( 0.25 mm)

Operator ID: LIMS import  
Worklist Smp#: 10

ALS Bottle#: 10



TestAmerica Savannah

Data File: \\ChromNA\\Savannah\\ChromData\\CMSY\\20150818-22358.b\\1YF18010.D

Injection Date: 18-Aug-2015 15:56:30

Instrument ID: CMSY

Lims ID: 680-115692-A-2-A

Lab Sample ID: 680-115692-2

Client ID: CV0511NN-CSD-6

Operator ID: LIMS import

ALS Bottle#: 10 Worklist Smp#: 10

Injection Vol: 2.0 ul

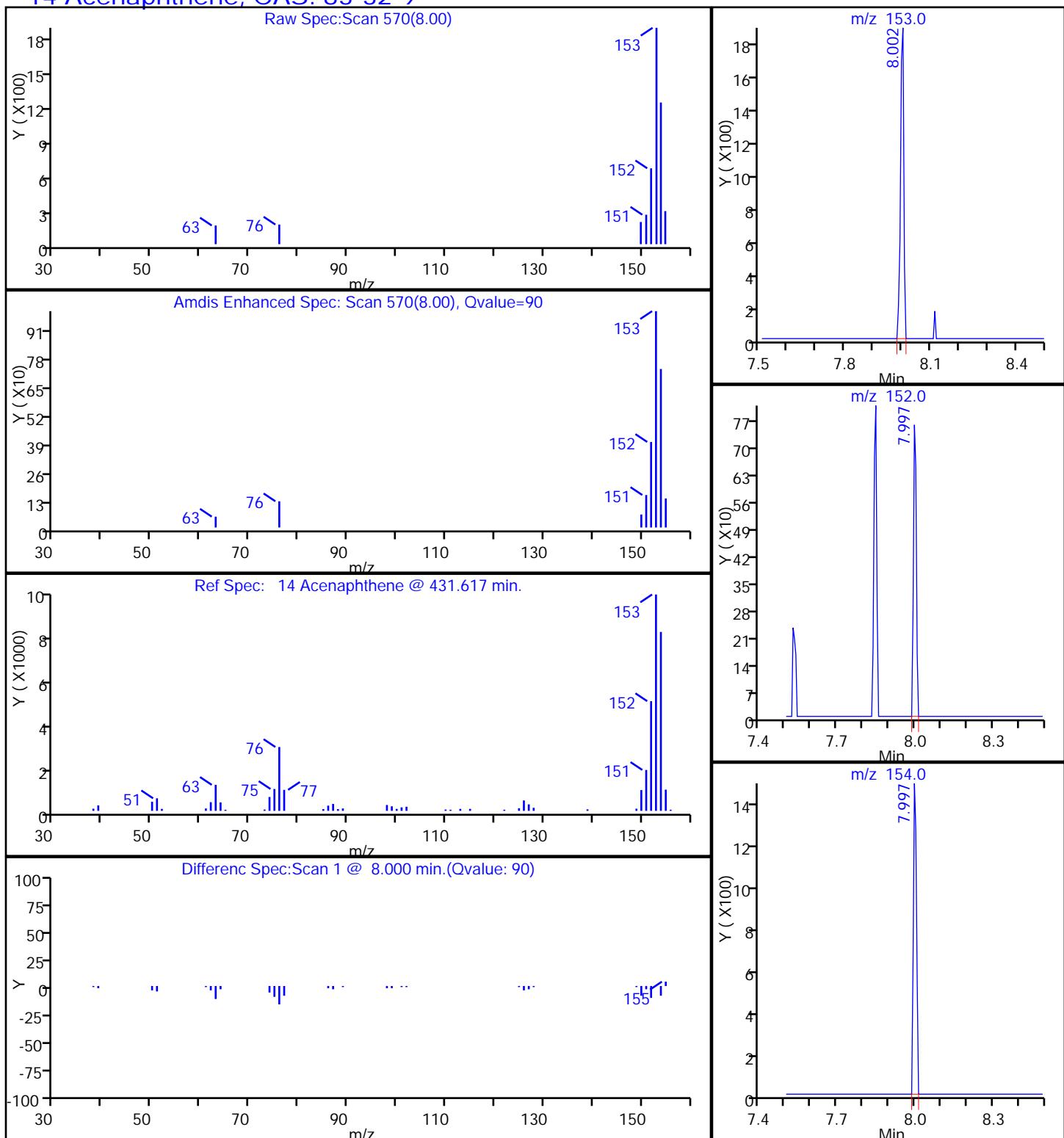
Dil. Factor: 10.0000

Method: 8270D\_LLPAH\_MSY

Limit Group: 8270D\_LL\_PAH

Column: Restek RXi-5Sil MS ( 0.25 mm)

Detector MS SCAN

**14 Acenaphthene, CAS: 83-32-9**

TestAmerica Savannah

Data File: \\ChromNA\\Savannah\\ChromData\\CMSY\\20150818-22358.b\\1YF18010.D

Injection Date: 18-Aug-2015 15:56:30

Instrument ID: CMSY

Lims ID: 680-115692-A-2-A

Lab Sample ID: 680-115692-2

Client ID: CV0511NN-CSD-6

Operator ID: LIMS import

ALS Bottle#: 10 Worklist Smp#: 10

Injection Vol: 2.0 ul

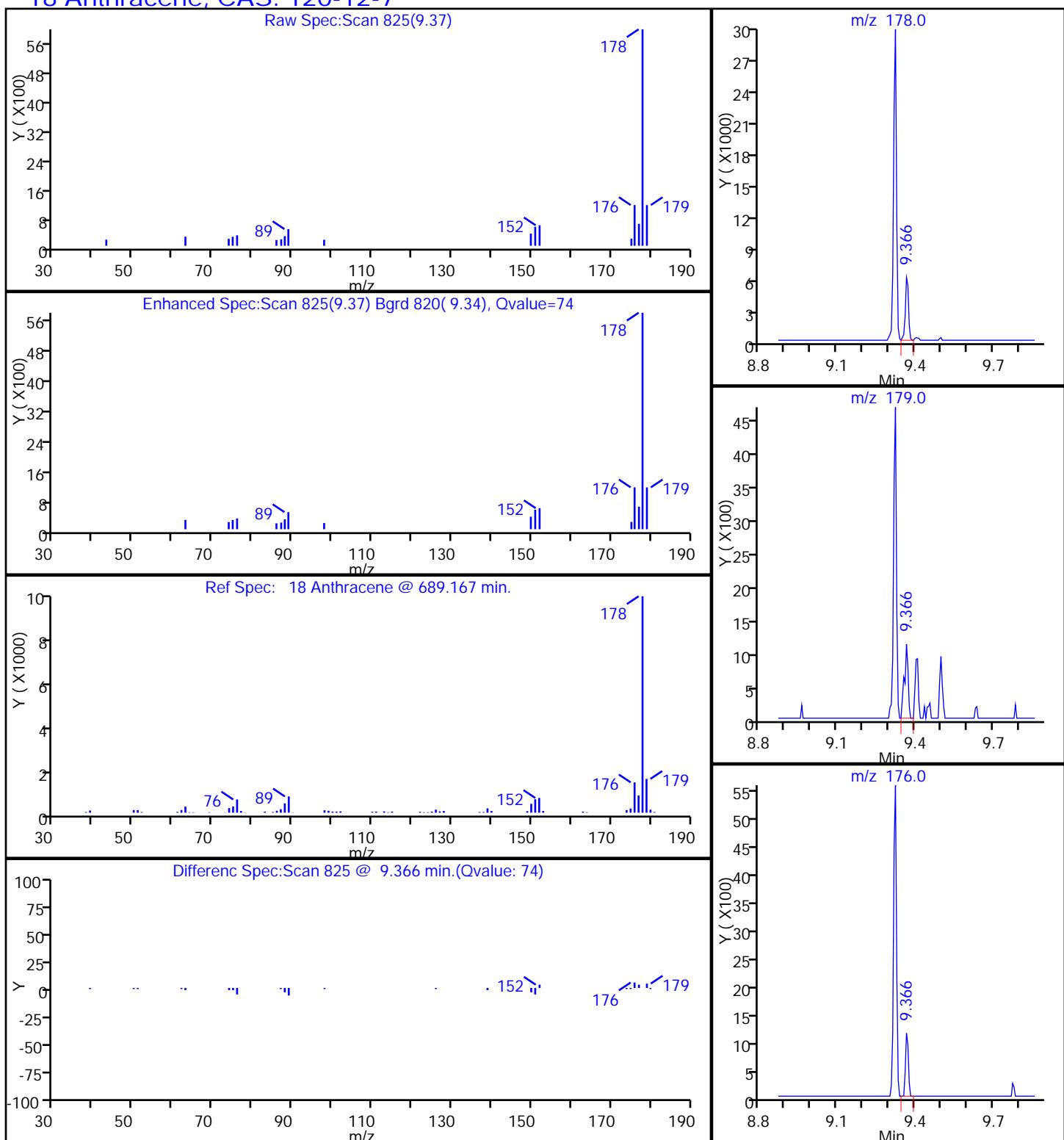
Dil. Factor: 10.0000

Method: 8270D\_LLPAH\_MSY

Limit Group: 8270D\_LL\_PAH

Column: Restek RXi-5Sil MS ( 0.25 mm)

Detector: MS SCAN

**18 Anthracene, CAS: 120-12-7**

TestAmerica Savannah

Data File: \\ChromNA\\Savannah\\ChromData\\CMSY\\20150818-22358.b\\1YF18010.D

Injection Date: 18-Aug-2015 15:56:30

Instrument ID: CMSY

Lims ID: 680-115692-A-2-A

Lab Sample ID: 680-115692-2

Client ID: CV0511NN-CSD-6

Operator ID: LIMS import

ALS Bottle#: 10 Worklist Smp#: 10

Injection Vol: 2.0 ul

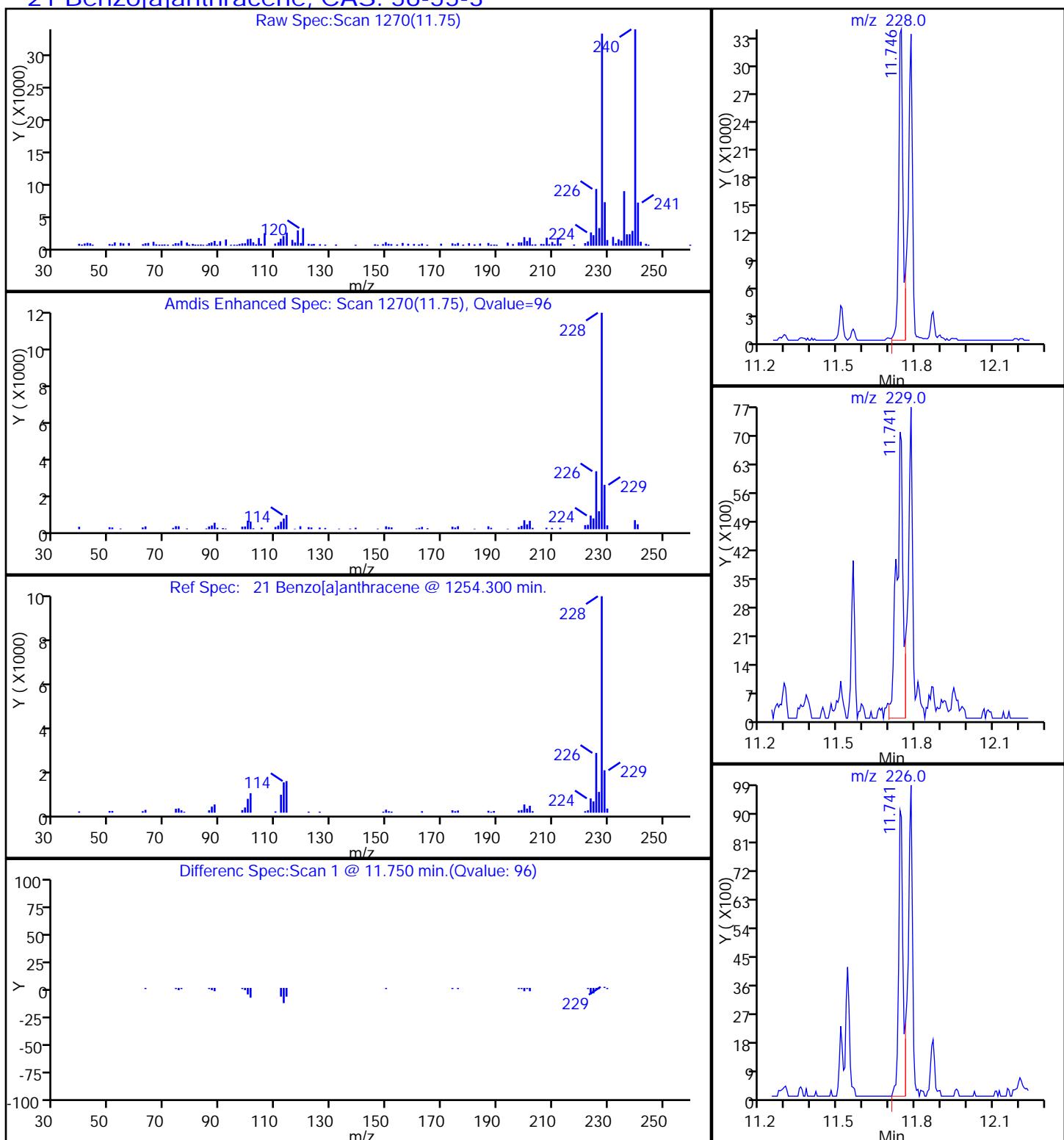
Dil. Factor: 10.0000

Method: 8270D\_LLPAH\_MSY

Limit Group: 8270D\_LL\_PAH

Column: Restek RXi-5Sil MS ( 0.25 mm)

Detector MS SCAN

**21 Benzo[a]anthracene, CAS: 56-55-3**

TestAmerica Savannah

Data File: \\ChromNA\\Savannah\\ChromData\CMSY\\20150818-22358.b\\1YF18010.D

Injection Date: 18-Aug-2015 15:56:30

Instrument ID: CMSY

Lims ID: 680-115692-A-2-A

Lab Sample ID: 680-115692-2

Client ID: CV0511NN-CSD-6

Operator ID: LIMS import

ALS Bottle#: 10 Worklist Smp#: 10

Injection Vol: 2.0 ul

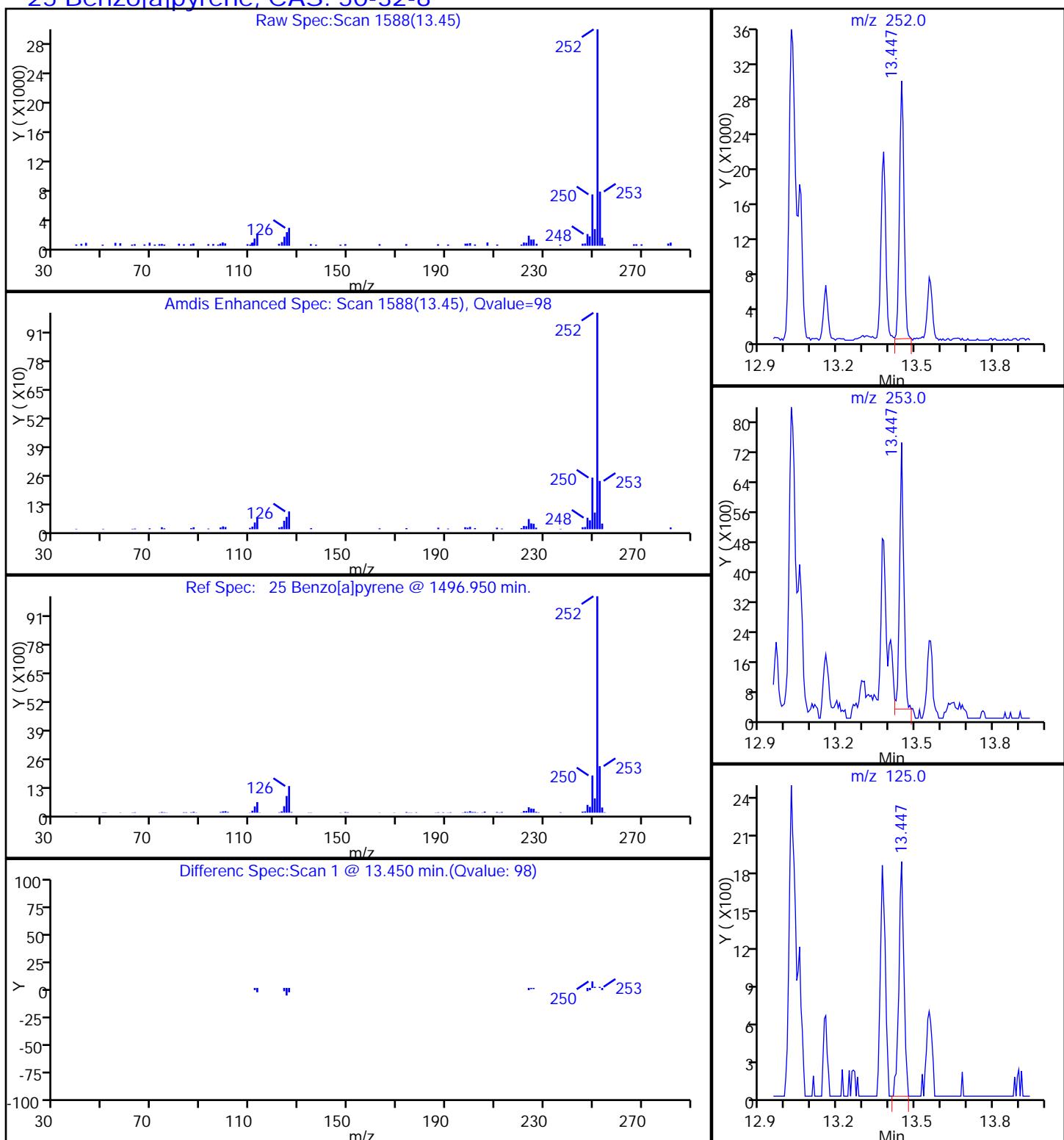
Dil. Factor: 10.0000

Method: 8270D\_LLPAH\_MSY

Limit Group: 8270D\_LL\_PAH

Column: Restek RXi-5Sil MS ( 0.25 mm)

Detector: MS SCAN

**25 Benzo[a]pyrene, CAS: 50-32-8**

TestAmerica Savannah

Data File: \\ChromNA\\Savannah\\ChromData\\CMSY\\20150818-22358.b\\1YF18010.D

Injection Date: 18-Aug-2015 15:56:30

Instrument ID: CMSY

Lims ID: 680-115692-A-2-A

Lab Sample ID: 680-115692-2

Client ID: CV0511NN-CSD-6

Operator ID: LIMS import

ALS Bottle#: 10 Worklist Smp#: 10

Injection Vol: 2.0 ul

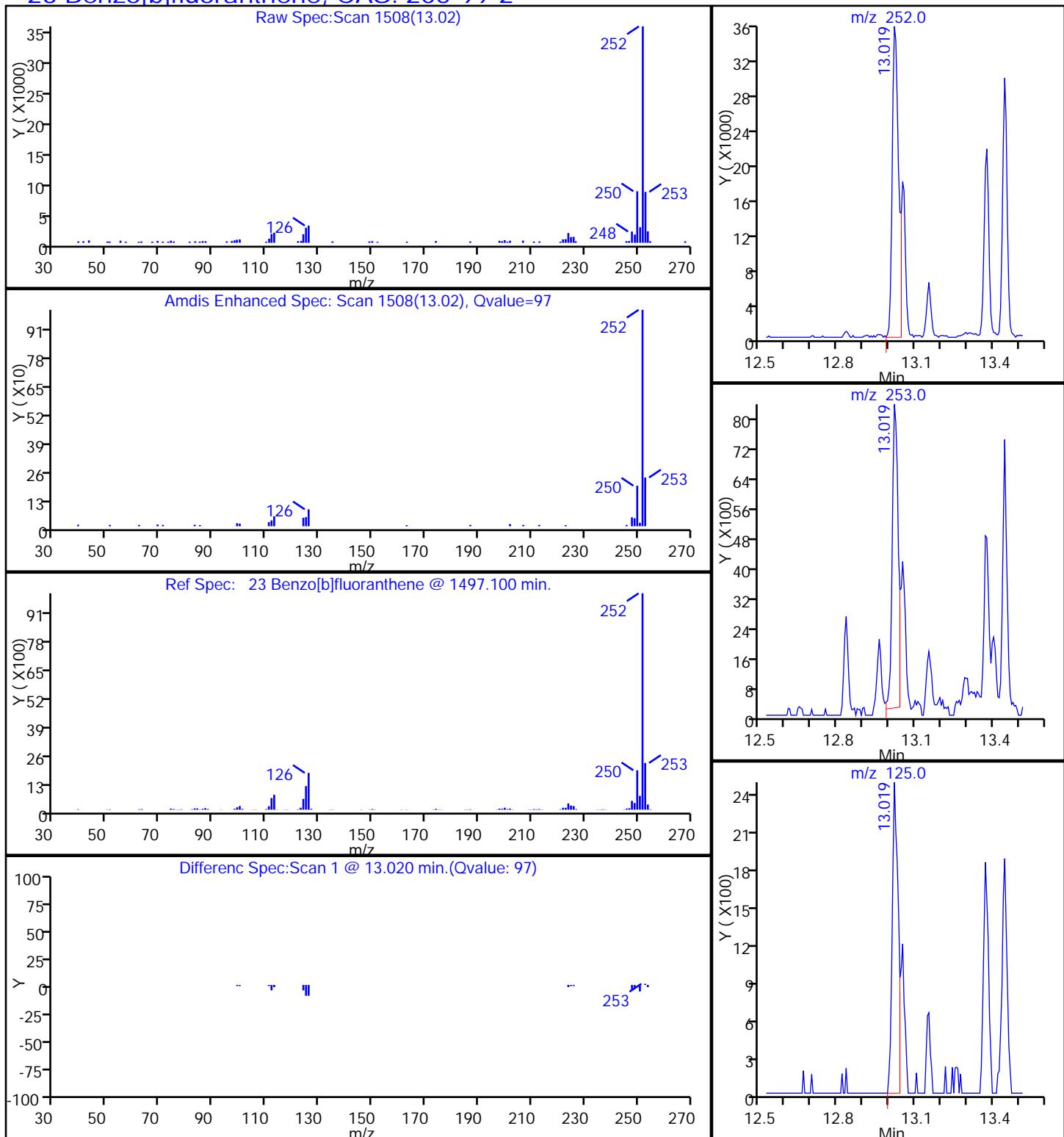
Dil. Factor: 10.0000

Method: 8270D\_LLPAH\_MSY

Limit Group: 8270D\_LL\_PAH

Column: Restek RXi-5Sil MS ( 0.25 mm)

Detector: MS SCAN

**23 Benzo[b]fluoranthene, CAS: 205-99-2**

TestAmerica Savannah

Data File: \\ChromNA\\Savannah\\ChromData\CMSY\\20150818-22358.b\\1YF18010.D

Injection Date: 18-Aug-2015 15:56:30

Instrument ID: CMSY

Lims ID: 680-115692-A-2-A

Lab Sample ID: 680-115692-2

Client ID: CV0511NN-CSD-6

Operator ID: LIMS import

ALS Bottle#: 10 Worklist Smp#: 10

Injection Vol: 2.0 ul

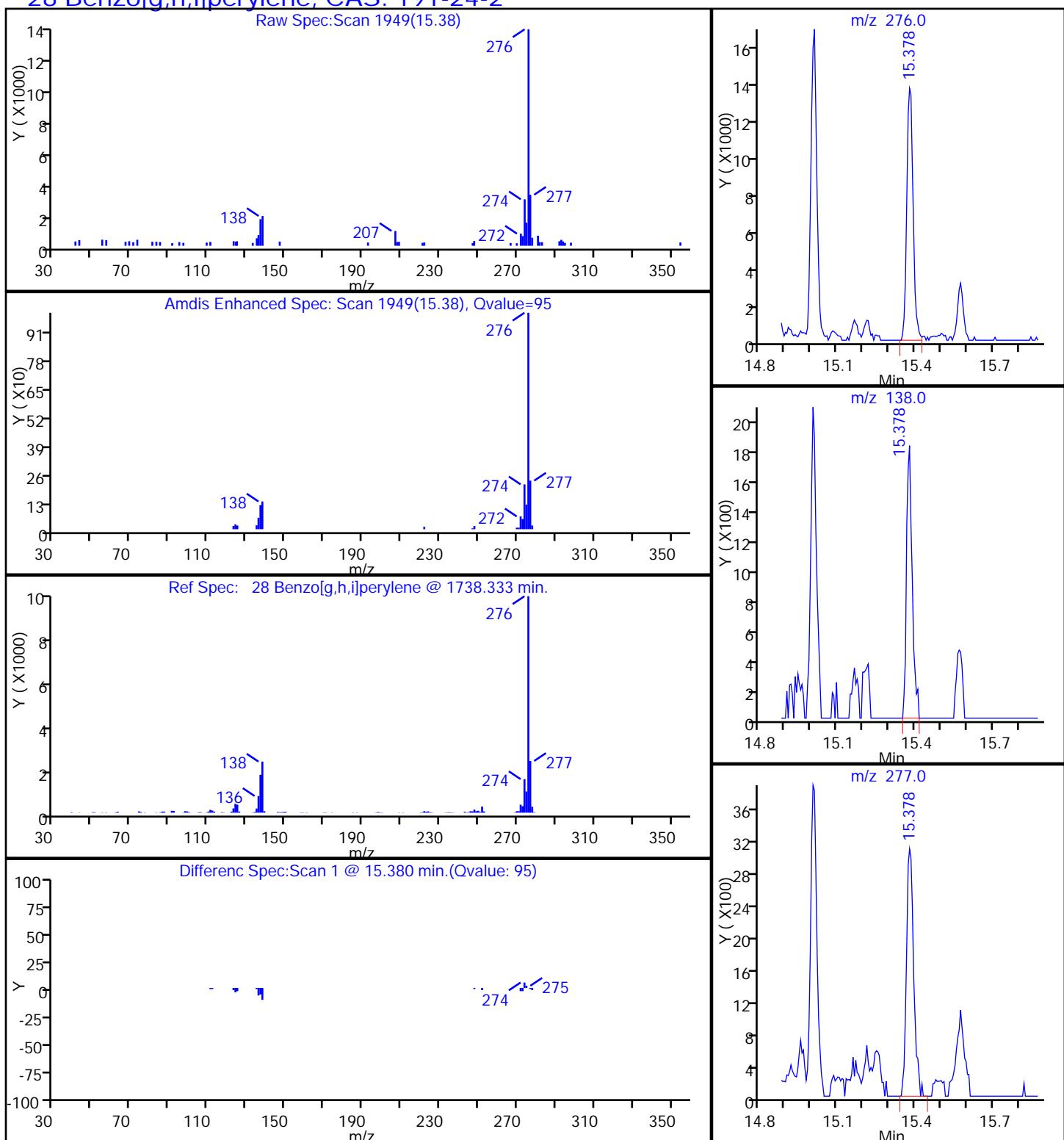
Dil. Factor: 10.0000

Method: 8270D\_LLPAH\_MSY

Limit Group: 8270D\_LL\_PAH

Column: Restek RXi-5Sil MS ( 0.25 mm)

Detector MS SCAN

**28 Benzo[g,h,i]perylene, CAS: 191-24-2**

TestAmerica Savannah

Data File: \\ChromNA\\Savannah\\ChromData\CMSY\\20150818-22358.b\\1YF18010.D

Injection Date: 18-Aug-2015 15:56:30

Instrument ID: CMSY

Lims ID: 680-115692-A-2-A

Lab Sample ID: 680-115692-2

Client ID: CV0511NN-CSD-6

Operator ID: LIMS import

ALS Bottle#: 10 Worklist Smp#: 10

Injection Vol: 2.0 ul

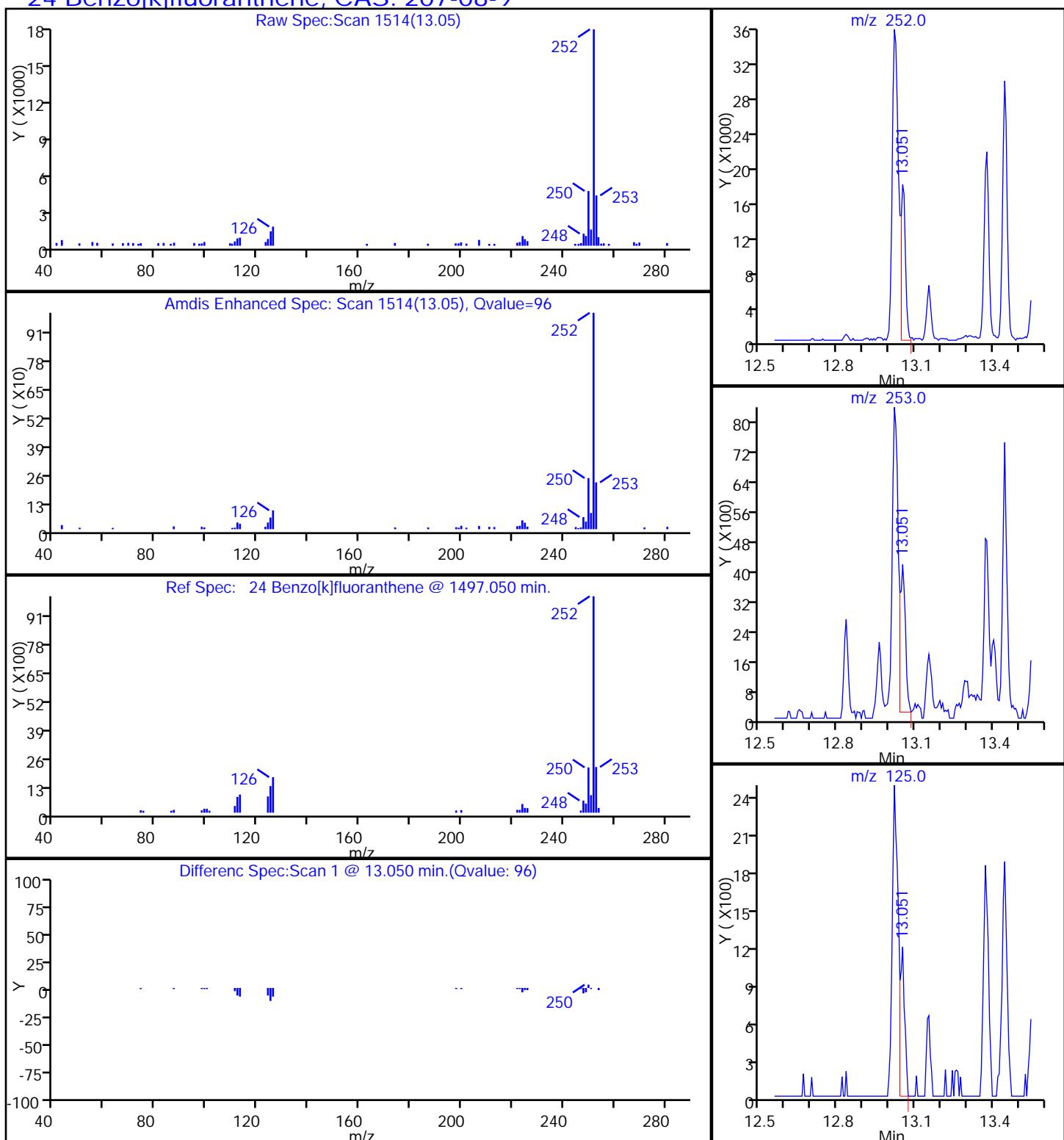
Dil. Factor: 10.0000

Method: 8270D\_LLPAH\_MSY

Limit Group: 8270D\_LL\_PAH

Column: Restek RXi-5Sil MS ( 0.25 mm)

Detector MS SCAN

**24 Benzo[k]fluoranthene, CAS: 207-08-9**

TestAmerica Savannah

Data File: \\ChromNA\\Savannah\\ChromData\CMSY\\20150818-22358.b\\1YF18010.D

Injection Date: 18-Aug-2015 15:56:30

Instrument ID: CMSY

Lims ID: 680-115692-A-2-A

Lab Sample ID: 680-115692-2

Client ID: CV0511NN-CSD-6

Operator ID: LIMS import

ALS Bottle#: 10 Worklist Smp#: 10

Injection Vol: 2.0 ul

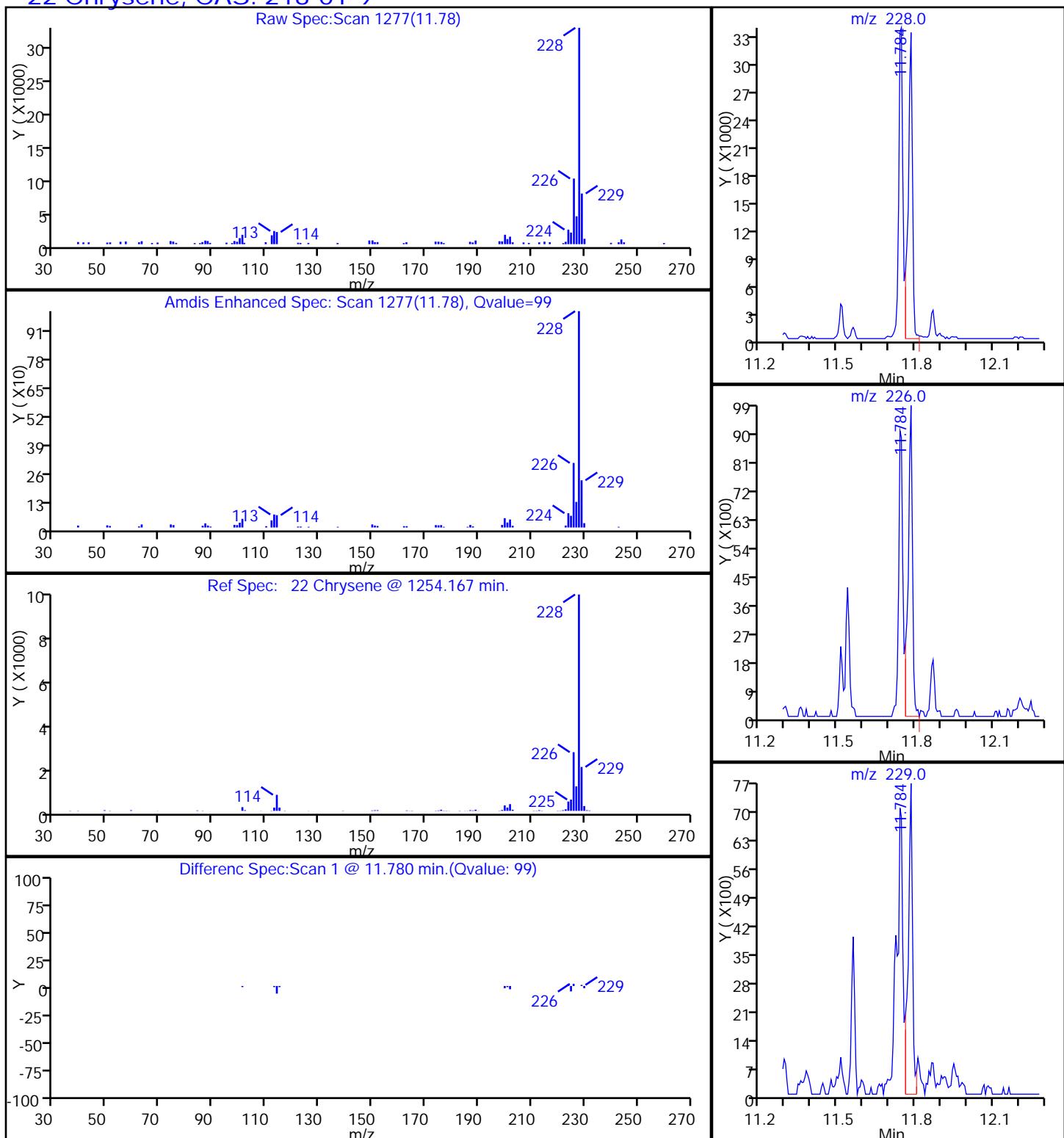
Dil. Factor: 10.0000

Method: 8270D\_LLPAH\_MSY

Limit Group: 8270D\_LL\_PAH

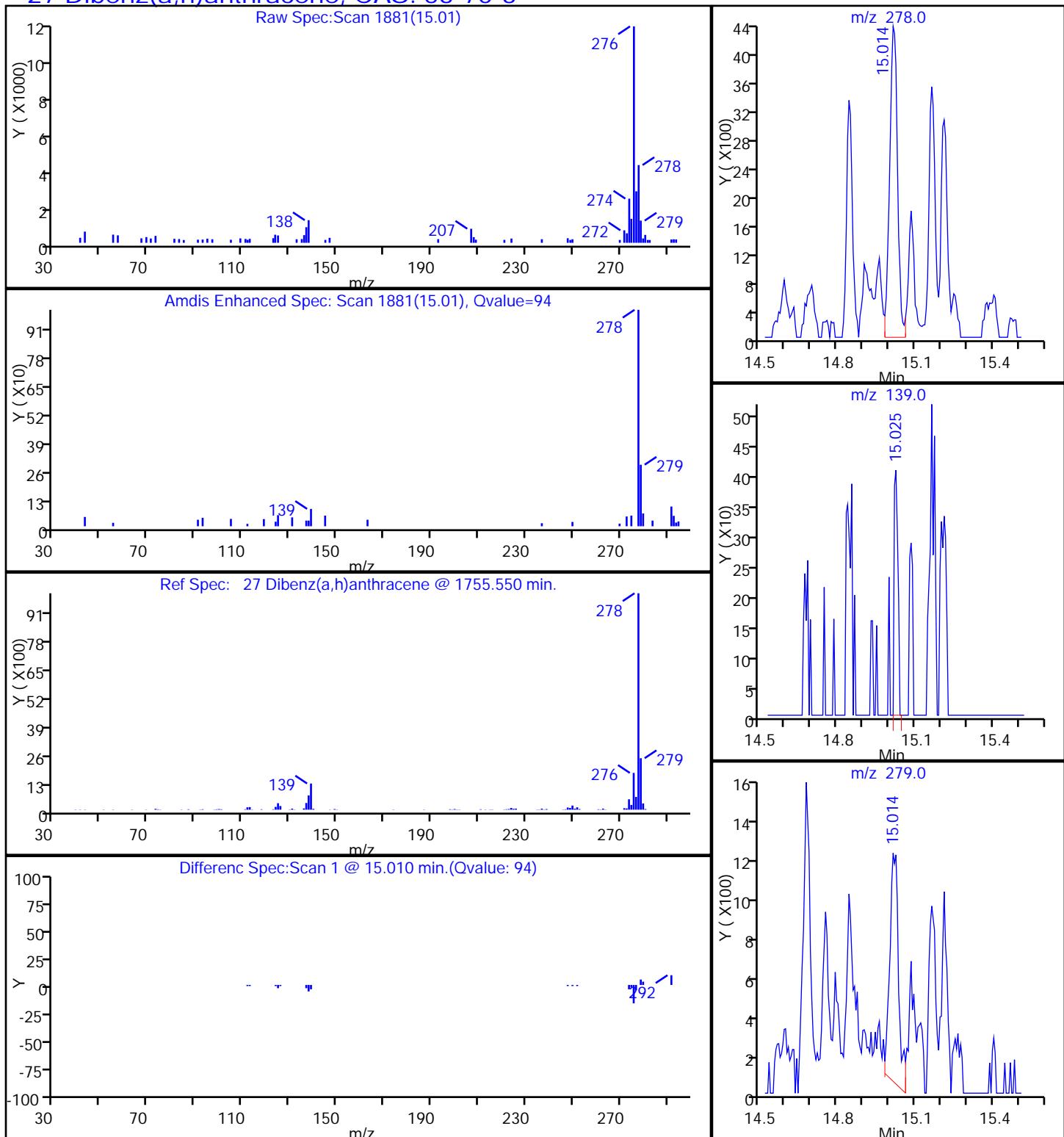
Column: Restek RXi-5Sil MS ( 0.25 mm)

Detector: MS SCAN

**22 Chrysene, CAS: 218-01-9**

TestAmerica Savannah  
 Data File: \\ChromNA\\Savannah\\ChromData\\CMSY\\20150818-22358.b\\1YF18010.D  
 Injection Date: 18-Aug-2015 15:56:30 Instrument ID: CMSY  
 Lims ID: 680-115692-A-2-A Lab Sample ID: 680-115692-2  
 Client ID: CV0511NN-CSD-6  
 Operator ID: LIMS import ALS Bottle#: 10 Worklist Smp#: 10  
 Injection Vol: 2.0 ul Dil. Factor: 10.0000  
 Method: 8270D\_LLPAH\_MSY Limit Group: 8270D\_LL\_PAH  
 Column: Restek RXi-5Sil MS ( 0.25 mm) Detector MS SCAN

### 27 Dibenz(a,h)anthracene, CAS: 53-70-3



TestAmerica Savannah

Data File: \\ChromNA\\Savannah\\ChromData\CMSY\\20150818-22358.b\\1YF18010.D

Injection Date: 18-Aug-2015 15:56:30

Instrument ID: CMSY

Lims ID: 680-115692-A-2-A

Lab Sample ID: 680-115692-2

Client ID: CV0511NN-CSD-6

Operator ID: LIMS import

ALS Bottle#: 10 Worklist Smp#: 10

Injection Vol: 2.0 ul

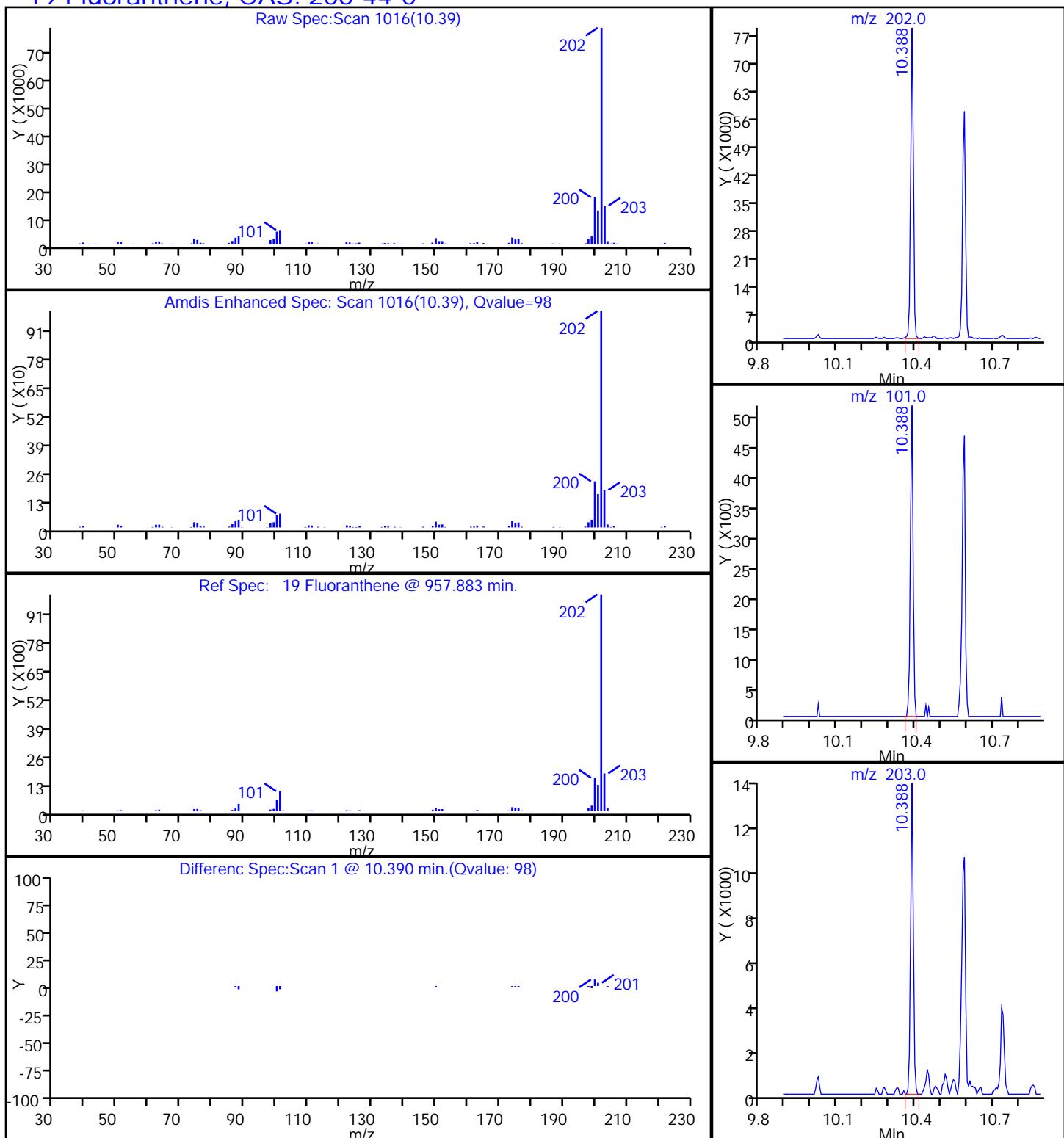
Dil. Factor: 10.0000

Method: 8270D\_LLPAH\_MSY

Limit Group: 8270D\_LL\_PAH

Column: Restek RXi-5Sil MS ( 0.25 mm)

Detector: MS SCAN

**19 Fluoranthene, CAS: 206-44-0**

TestAmerica Savannah

Data File: \\ChromNA\\Savannah\\ChromData\CMSY\\20150818-22358.b\\1YF18010.D

Injection Date: 18-Aug-2015 15:56:30

Instrument ID: CMSY

Lims ID: 680-115692-A-2-A

Lab Sample ID: 680-115692-2

Client ID: CV0511NN-CSD-6

Operator ID: LIMS import

ALS Bottle#: 10 Worklist Smp#: 10

Injection Vol: 2.0 ul

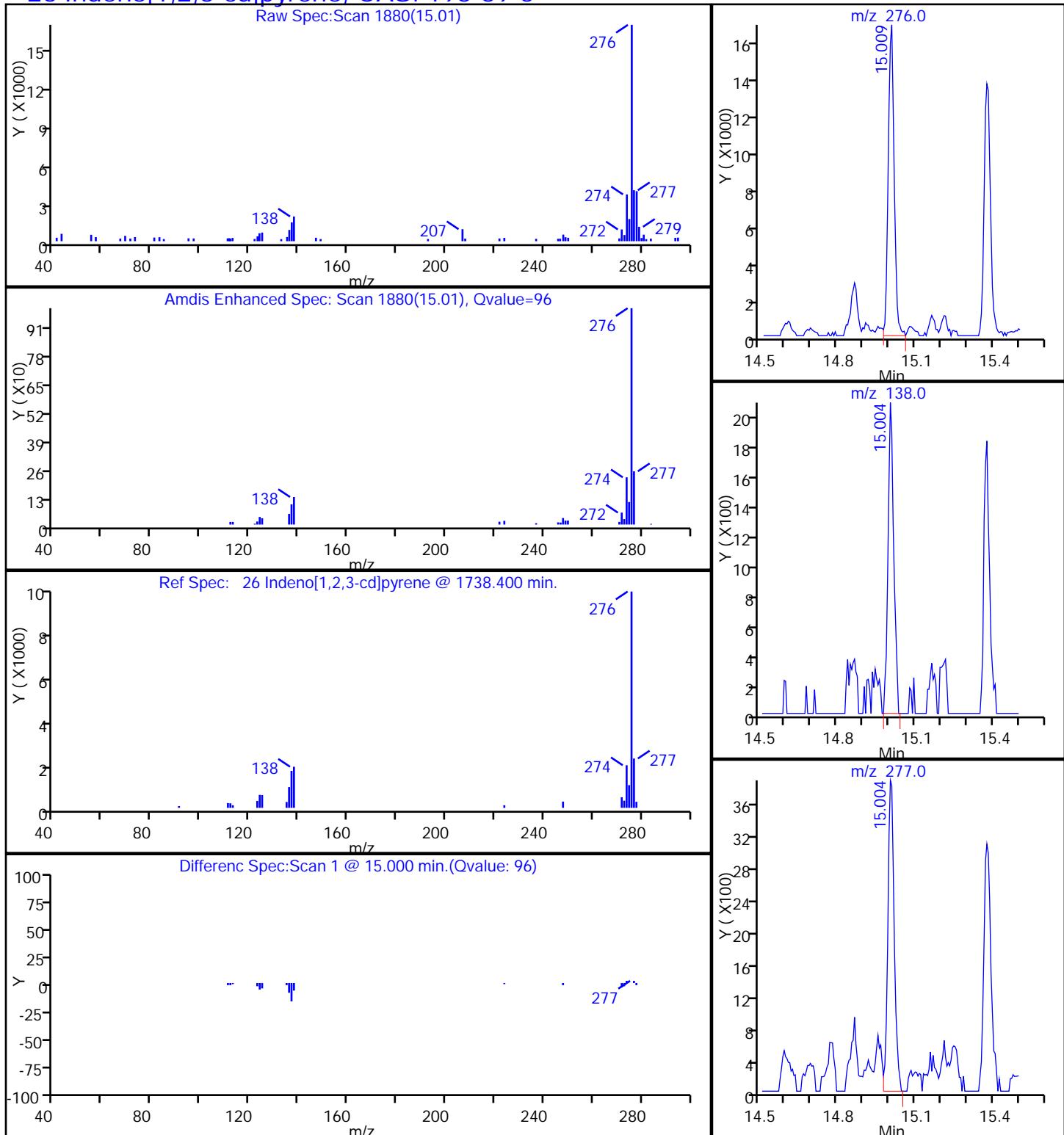
Dil. Factor: 10.0000

Method: 8270D\_LLPAH\_MSY

Limit Group: 8270D\_LL\_PAH

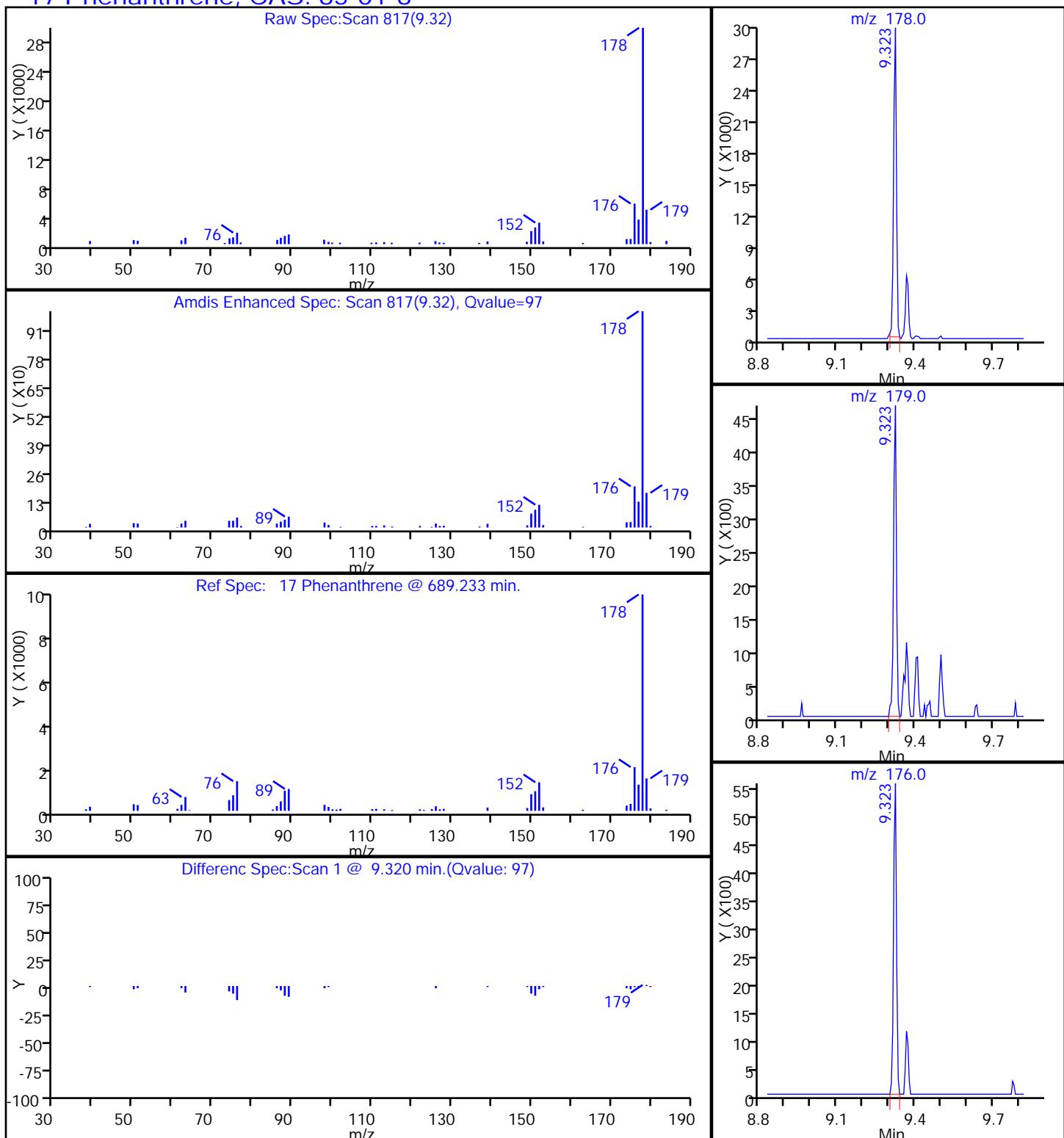
Column: Restek RXi-5Sil MS ( 0.25 mm)

Detector MS SCAN

**26 Indeno[1,2,3-cd]pyrene, CAS: 193-39-5**

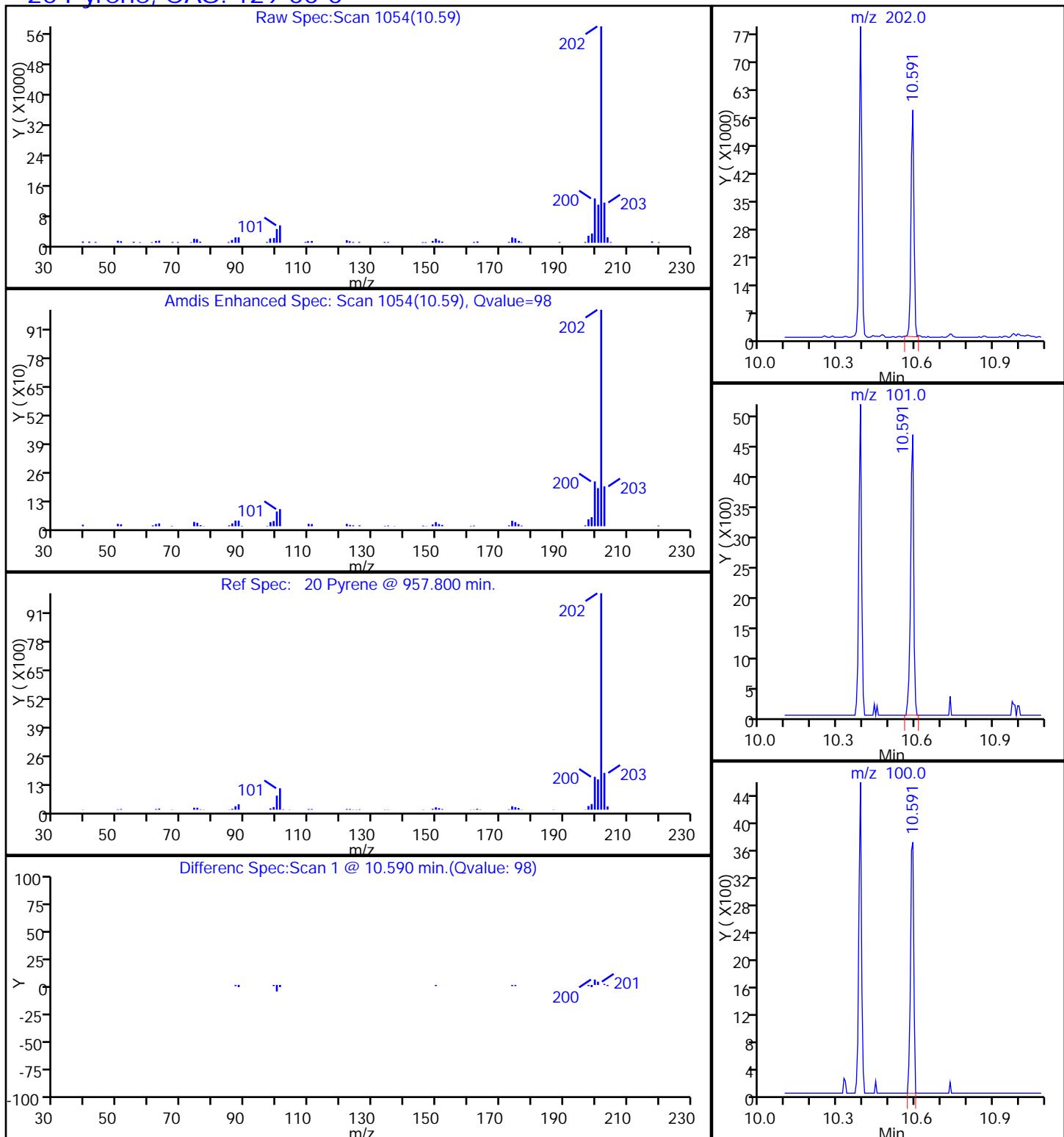
TestAmerica Savannah  
 Data File: \\ChromNA\\Savannah\\ChromData\\CMSY\\20150818-22358.b\\1YF18010.D  
 Injection Date: 18-Aug-2015 15:56:30 Instrument ID: CMSY  
 Lims ID: 680-115692-A-2-A Lab Sample ID: 680-115692-2  
 Client ID: CV0511NN-CSD-6  
 Operator ID: LIMS import ALS Bottle#: 10 Worklist Smp#: 10  
 Injection Vol: 2.0 ul Dil. Factor: 10.0000  
 Method: 8270D\_LLPAH\_MSY Limit Group: 8270D\_LL\_PAH  
 Column: Restek RXi-5Sil MS ( 0.25 mm) Detector MS SCAN

### 17 Phenanthrene, CAS: 85-01-8



TestAmerica Savannah  
 Data File: \\ChromNA\\Savannah\\ChromData\\CMSY\\20150818-22358.b\\1YF18010.D  
 Injection Date: 18-Aug-2015 15:56:30 Instrument ID: CMSY  
 Lims ID: 680-115692-A-2-A Lab Sample ID: 680-115692-2  
 Client ID: CV0511NN-CSD-6  
 Operator ID: LIMS import ALS Bottle#: 10 Worklist Smp#: 10  
 Injection Vol: 2.0 ul Dil. Factor: 10.0000  
 Method: 8270D\_LLPAH\_MSY Limit Group: 8270D\_LL\_PAH  
 Column: Restek RXi-5Sil MS ( 0.25 mm) Detector MS SCAN

## 20 Pyrene, CAS: 129-00-0



FORM I  
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Savannah Job No.: 680-115692-1  
 SDG No.: 680-115692-01  
 Client Sample ID: CV0511NN-CS-12 Lab Sample ID: 680-115692-3  
 Matrix: Solid Lab File ID: 1YF18011.D  
 Analysis Method: 8270D\_LL\_PAH Date Collected: 08/10/2015 14:05  
 Extract. Method: 3546 Date Extracted: 08/17/2015 10:44  
 Sample wt/vol: 30.17(g) Date Analyzed: 08/18/2015 16:25  
 Con. Extract Vol.: 1(mL) Dilution Factor: 1  
 Injection Volume: 2(uL) Level: (low/med) Low  
 % Moisture: 15.0 GPC Cleanup: (Y/N) N  
 Analysis Batch No.: 396712 Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	7.8	U	7.8	3.9
208-96-8	Acenaphthylene	7.8	U	7.8	3.9
120-12-7	Anthracene	8.1		7.8	3.9
56-55-3	Benzo[a]anthracene	63		7.8	3.9
50-32-8	Benzo[a]pyrene	56		7.8	1.4
205-99-2	Benzo[b]fluoranthene	98		7.8	3.9
191-24-2	Benzo[g,h,i]perylene	28		7.8	3.9
207-08-9	Benzo[k]fluoranthene	33		7.8	2.3
218-01-9	Chrysene	67		7.8	3.9
53-70-3	Dibenz(a,h)anthracene	9.7		7.8	3.9
206-44-0	Fluoranthene	120		7.8	3.9
86-73-7	Fluorene	7.8	U	7.8	3.9
193-39-5	Indeno[1,2,3-cd]pyrene	24		7.8	3.9
90-12-0	1-Methylnaphthalene	7.8	U	7.8	3.6
91-57-6	2-Methylnaphthalene	7.8	U	7.8	3.9
91-20-3	Naphthalene	4.5	J	7.8	3.9
85-01-8	Phenanthrene	39		7.8	2.8
129-00-0	Pyrene	81		7.8	3.9

CAS NO.	SURROGATE	%REC	Q	LIMITS
84-15-1	o-Terphenyl	68		36-131

TestAmerica Savannah  
Target Compound Quantitation Report

Data File: \\ChromNA\Savannah\ChromData\CMSY\20150818-22358.b\1YF18011.D  
 Lims ID: 680-115692-A-3-A Lab Sample ID: 680-115692-3  
 Client ID: CV0511NN-CS-12  
 Sample Type: Client  
 Inject. Date: 18-Aug-2015 16:25:30 ALS Bottle#: 11 Worklist Smp#: 11  
 Injection Vol: 2.0 ul Dil. Factor: 1.0000  
 Sample Info: 680-115692-A-3-A  
 Misc. Info.: 680-0022358-011  
 Operator ID: LIMS import Instrument ID: CMSY  
 Method: \\ChromNA\Savannah\ChromData\CMSY\20150818-22358.b\8270D\_LLPAH\_MSY.m  
 Limit Group: 8270D\_LL\_PAH  
 Last Update: 19-Aug-2015 11:22:28 Calib Date: 12-Aug-2015 16:37:30  
 Integrator: RTE ID Type: Deconvolution ID  
 Quant Method: Internal Standard Quant By: Initial Calibration  
 Last ICAL File: \\ChromNA\Savannah\ChromData\CMSY\20150812-22174.b\1YF12008.D  
 Column 1 : Restek RXi-5Sil MS ( 0.25 mm) Det: MS SCAN  
 Process Host: XAWRK003

First Level Reviewer: millsj Date: 19-Aug-2015 10:44:24

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/ml	Flags
* 1 Naphthalene-d8	136	6.360	6.366	-0.006	99	51249	2.00	
* 2 Acenaphthene-d10	164	7.970	7.975	-0.005	96	27761	2.00	
* 3 Phenanthrene-d10	188	9.302	9.307	-0.005	97	60430	2.00	
* 4 Chrysene-d12	240	11.757	11.773	-0.016	98	92124	2.00	
* 5 Perylene-d12	264	13.527	13.538	-0.011	99	98258	2.00	
\$ 6 o-Terphenyl	230	9.650	9.655	-0.005	91	28757	1.37	
7 Naphthalene	128	6.382	6.387	-0.005	63	2680	0.1158	
9 2-Methylnaphthalene	142	7.029	7.034	-0.005	87	1370	0.0829	
10 1-Methylnaphthalene	142	7.120	7.120	0.000	1	1000	0.0681	
12 Acenaphthylene	152	7.847	7.847	0.000	94	1815	0.0715	
14 Acenaphthene	153	7.997	8.002	-0.005	86	1089	0.0656	
16 Fluorene	166	8.681	8.468	0.213	38	1013	0.0531	
17 Phenanthrene	178	9.323	9.329	-0.006	97	28969	1.00	
18 Anthracene	178	9.371	9.371	0.000	76	5153	0.2078	
19 Fluoranthene	202	10.388	10.398	-0.010	98	104936	3.02	
20 Pyrene	202	10.591	10.602	-0.011	98	83577	2.08	
21 Benzo[a]anthracene	228	11.746	11.762	-0.016	97	71536	1.61	
22 Chrysene	228	11.784	11.805	-0.021	99	72898	1.72	
23 Benzo[b]fluoranthene	252	13.025	13.041	-0.016	96	120432	2.51	
24 Benzo[k]fluoranthene	252	13.057	13.078	-0.021	95	39546	0.8437	
25 Benzo[a]pyrene	252	13.452	13.469	-0.017	98	63707	1.43	
26 Indeno[1,2,3-cd]pyrene	276	15.014	15.025	-0.011	95	42501	0.6275	
27 Dibenz(a,h)anthracene	278	15.025	15.041	-0.016	92	13549	0.2486	
28 Benzo[g,h,i]perylene	276	15.389	15.399	-0.010	95	37344	0.7190	

**Reagents:**

SM-LLISTD\_00128 Amount Added: 10.00 Units: uL Run Reagent

Report Date: 19-Aug-2015 11:22:38

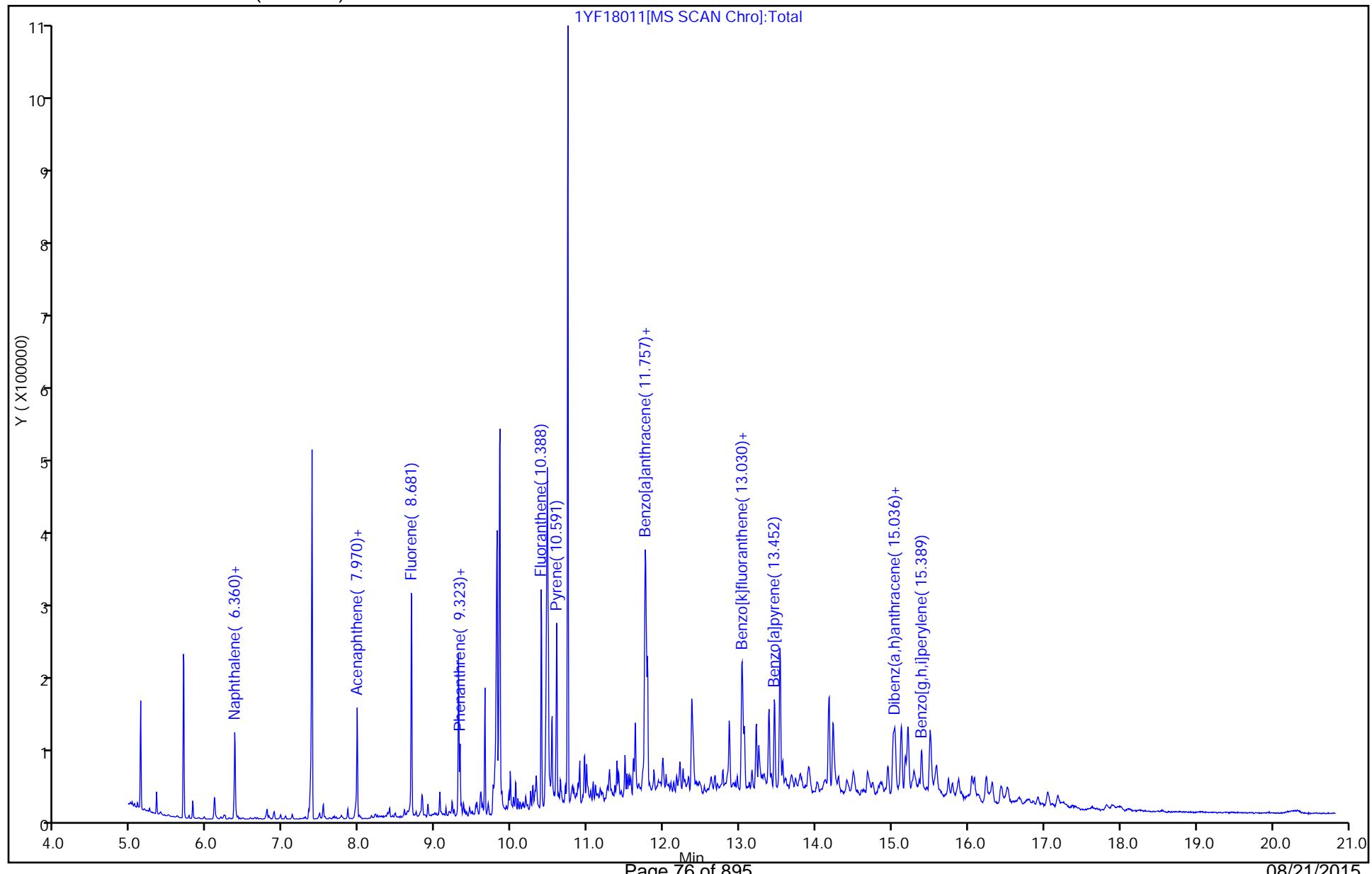
Chrom Revision: 2.2 23-Jul-2015 08:26:08

## TestAmerica Savannah

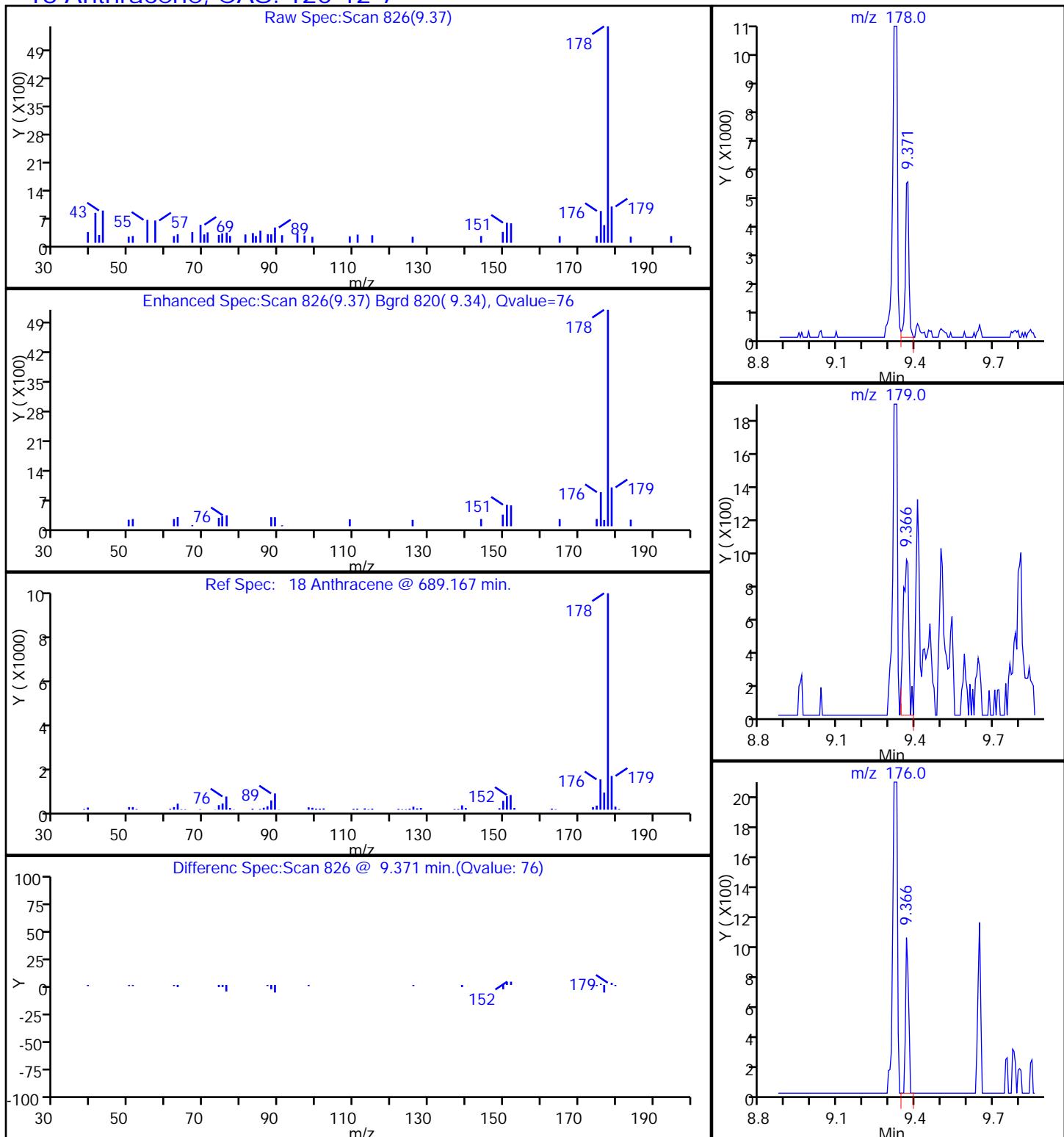
Data File: \\ChromNA\\Savannah\\ChromData\\CMSY\\20150818-22358.b\\1YF18011.D  
Injection Date: 18-Aug-2015 16:25:30 Instrument ID: CMSY  
Lims ID: 680-115692-A-3-A Lab Sample ID: 680-115692-3  
Client ID: CV0511NN-CS-12  
Injection Vol: 2.0 ul Dil. Factor: 1.0000  
Method: 8270D\_LLPAH\_MSY Limit Group: 8270D\_LL\_PAH  
Column: Restek RXi-5Sil MS ( 0.25 mm)

Operator ID: LIMS import  
Worklist Smp#: 11

ALS Bottle#: 11



TestAmerica Savannah  
 Data File: \\ChromNA\\Savannah\\ChromData\\CMSY\\20150818-22358.b\\1YF18011.D  
 Injection Date: 18-Aug-2015 16:25:30 Instrument ID: CMSY  
 Lims ID: 680-115692-A-3-A Lab Sample ID: 680-115692-3  
 Client ID: CV0511NN-CS-12  
 Operator ID: LIMS import ALS Bottle#: 11 Worklist Smp#: 11  
 Injection Vol: 2.0 ul Dil. Factor: 1.0000  
 Method: 8270D\_LLPAH\_MSY Limit Group: 8270D\_LL\_PAH  
 Column: Restek RXi-5Sil MS ( 0.25 mm) Detector MS SCAN

**18 Anthracene, CAS: 120-12-7**

TestAmerica Savannah

Data File: \\ChromNA\\Savannah\\ChromData\CMSY\\20150818-22358.b\\1YF18011.D

Injection Date: 18-Aug-2015 16:25:30

Instrument ID: CMSY

Lims ID: 680-115692-A-3-A

Lab Sample ID: 680-115692-3

Client ID: CV0511NN-CS-12

Operator ID: LIMS import

ALS Bottle#: 11 Worklist Smp#: 11

Injection Vol: 2.0 ul

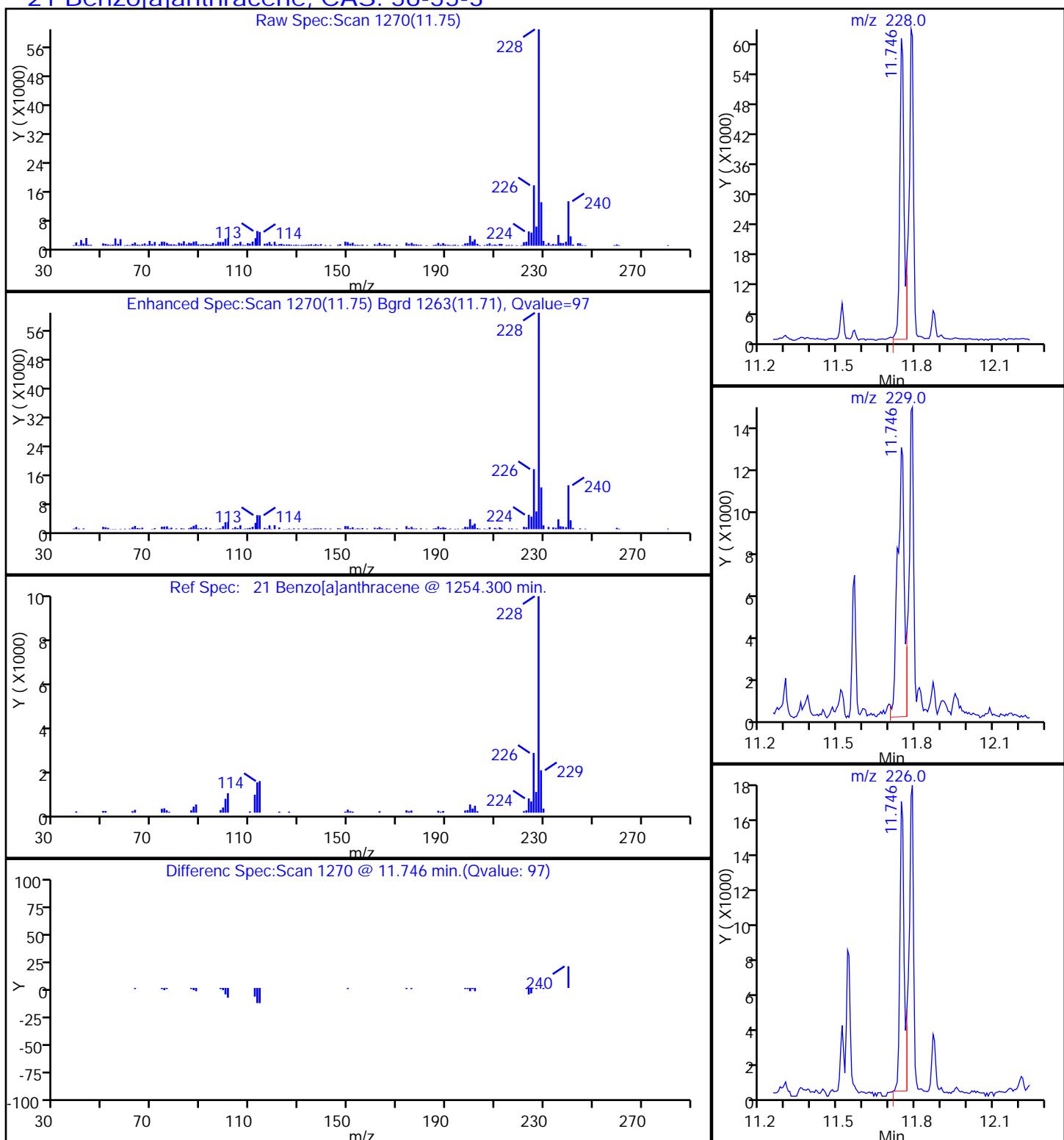
Dil. Factor: 1.0000

Method: 8270D\_LLPAH\_MSY

Limit Group: 8270D\_LL\_PAH

Column: Restek RXi-5Sil MS ( 0.25 mm)

Detector MS SCAN

**21 Benzo[a]anthracene, CAS: 56-55-3**

TestAmerica Savannah

Data File: \\ChromNA\\Savannah\\ChromData\CMSY\\20150818-22358.b\\1YF18011.D

Injection Date: 18-Aug-2015 16:25:30

Instrument ID: CMSY

Lims ID: 680-115692-A-3-A

Lab Sample ID: 680-115692-3

Client ID: CV0511NN-CS-12

Operator ID: LIMS import

ALS Bottle#: 11 Worklist Smp#: 11

Injection Vol: 2.0 ul

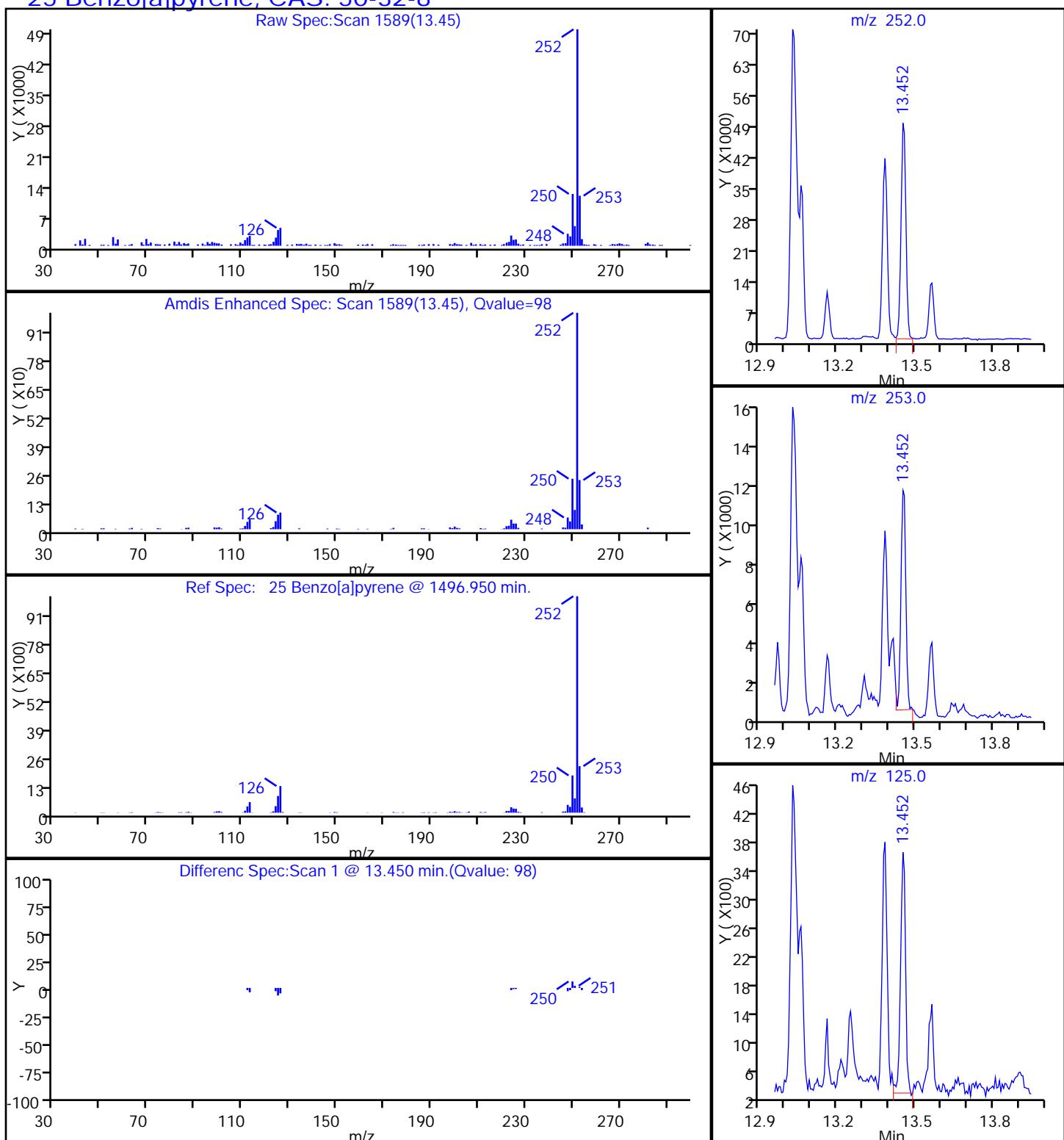
Dil. Factor: 1.0000

Method: 8270D\_LLPAH\_MSY

Limit Group: 8270D\_LL\_PAH

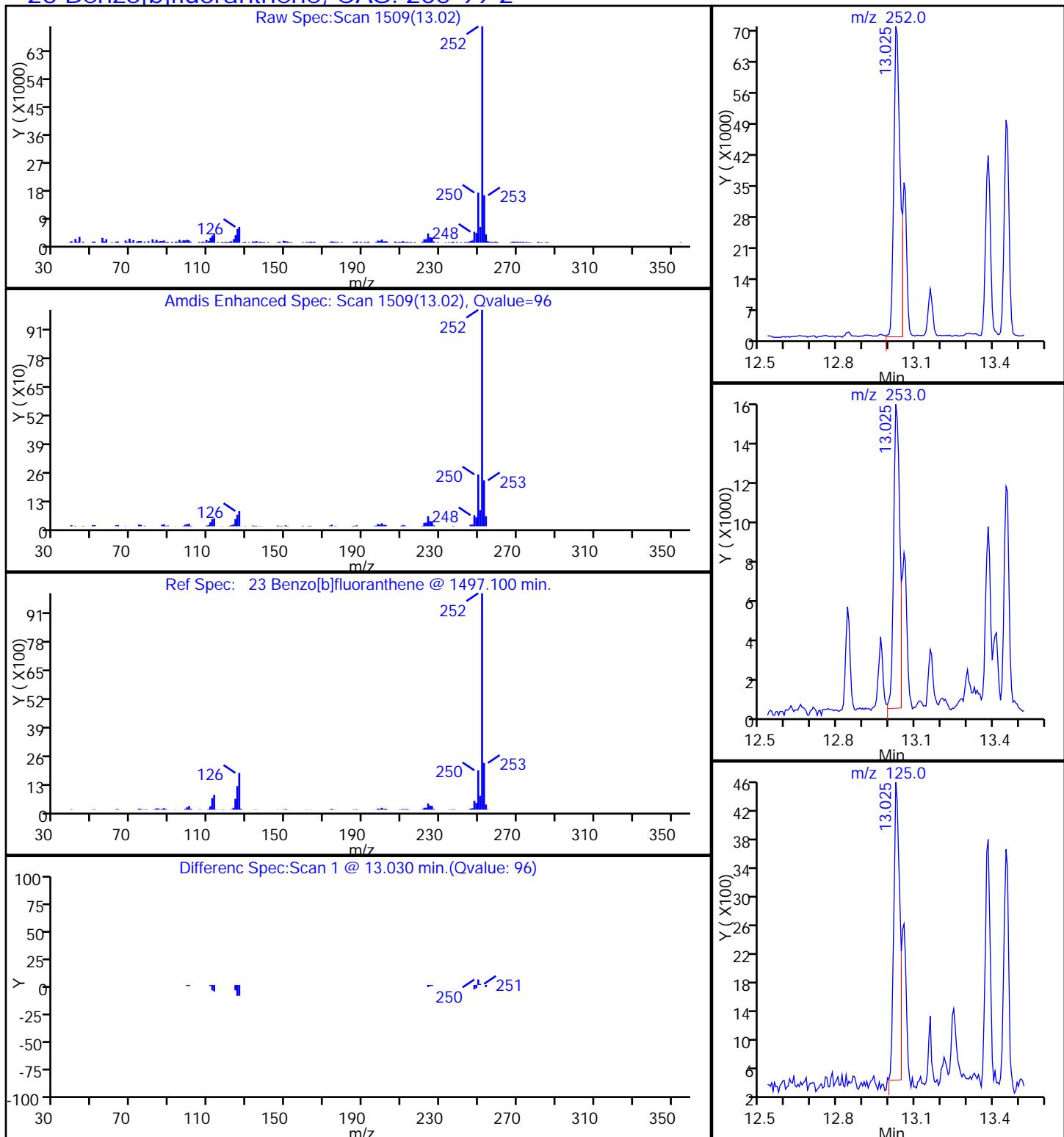
Column: Restek RXi-5Sil MS ( 0.25 mm)

Detector: MS SCAN

**25 Benzo[a]pyrene, CAS: 50-32-8**

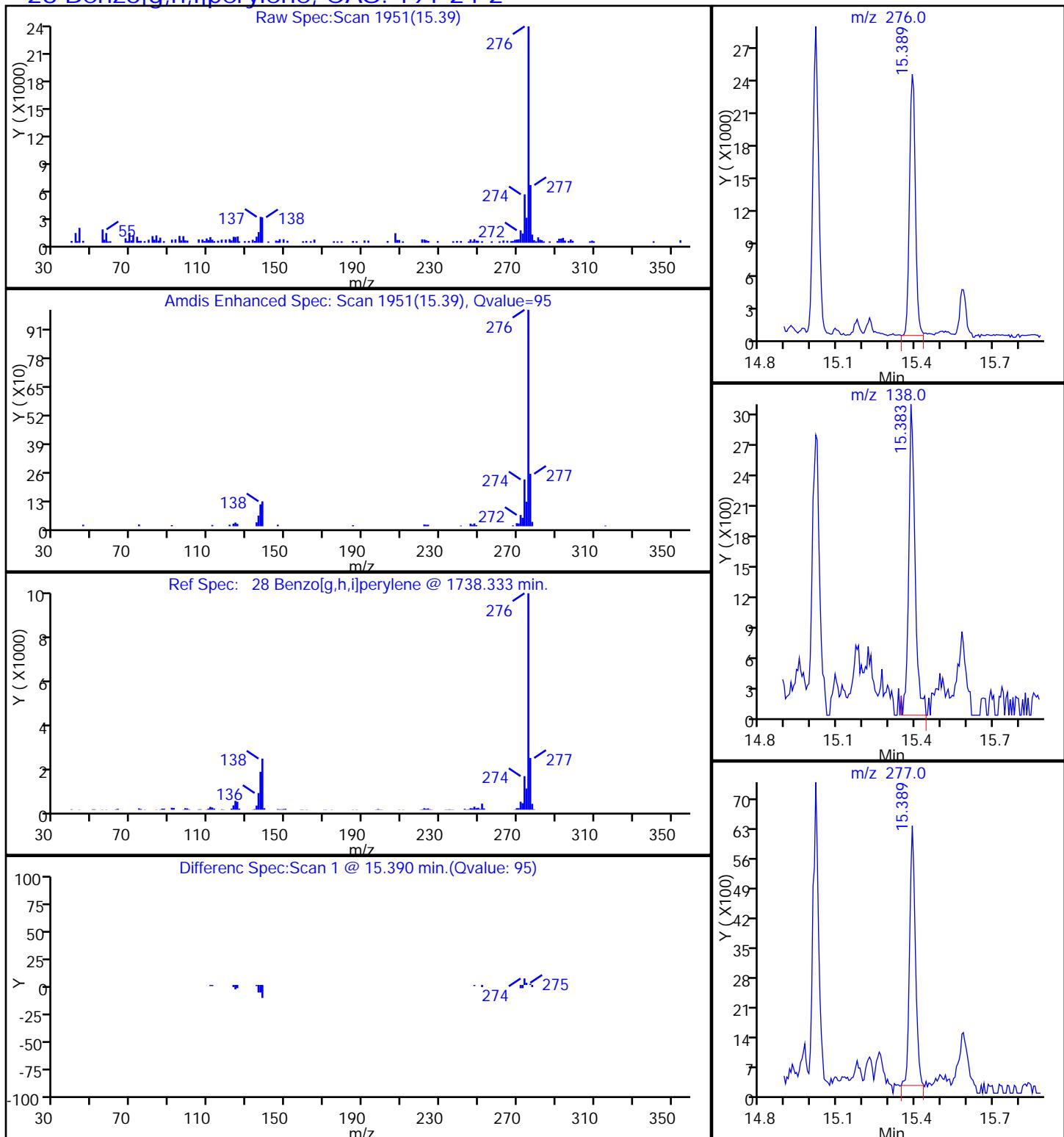
TestAmerica Savannah  
 Data File: \\ChromNA\\Savannah\\ChromData\\CMSY\\20150818-22358.b\\1YF18011.D  
 Injection Date: 18-Aug-2015 16:25:30 Instrument ID: CMSY  
 Lims ID: 680-115692-A-3-A Lab Sample ID: 680-115692-3  
 Client ID: CV0511NN-CS-12  
 Operator ID: LIMS import ALS Bottle#: 11 Worklist Smp#: 11  
 Injection Vol: 2.0 ul Dil. Factor: 1.0000  
 Method: 8270D\_LLPAH\_MSY Limit Group: 8270D\_LL\_PAH  
 Column: Restek RXi-5Sil MS ( 0.25 mm) Detector MS SCAN

### 23 Benzo[b]fluoranthene, CAS: 205-99-2



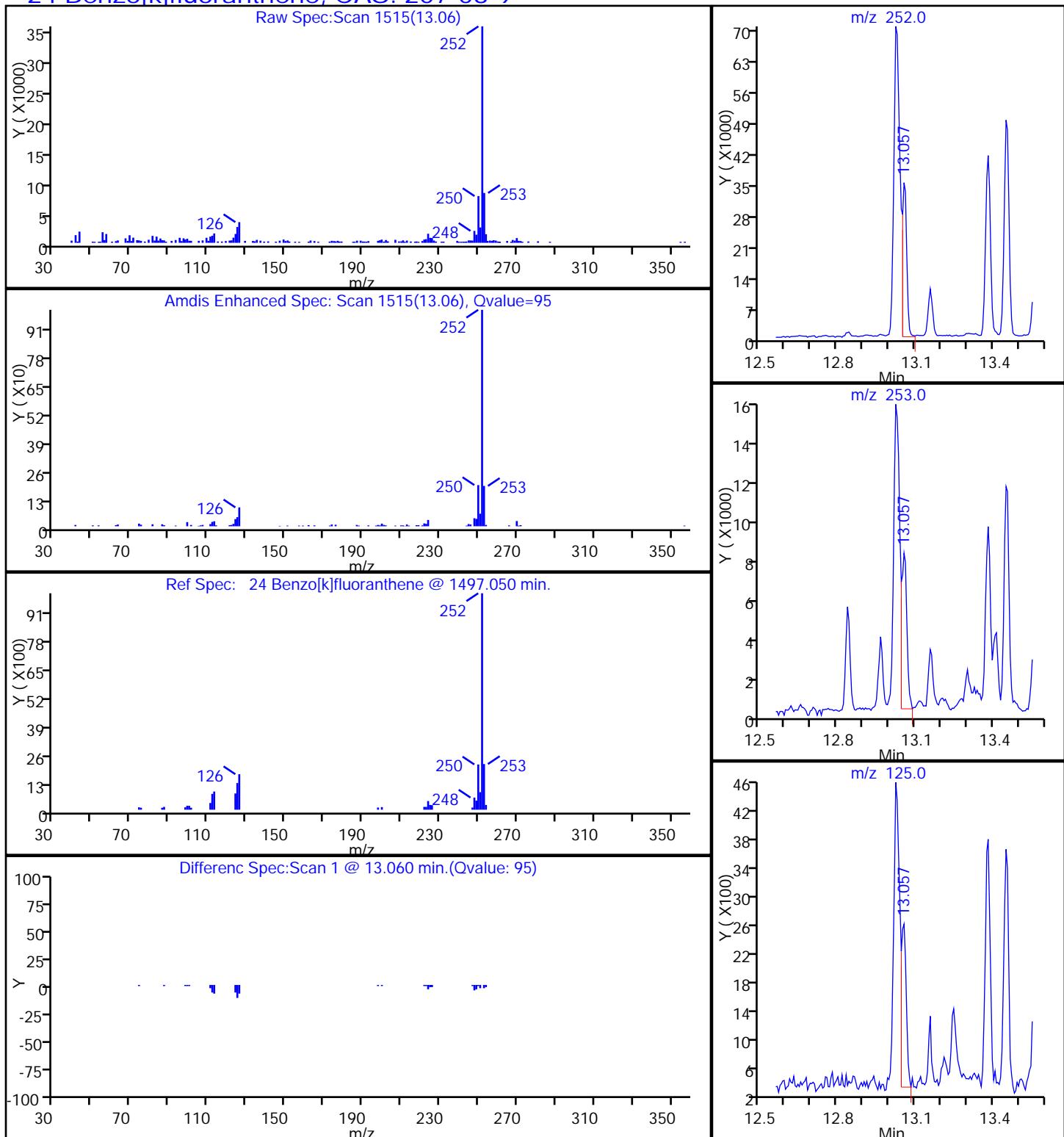
TestAmerica Savannah  
 Data File: \\ChromNA\\Savannah\\ChromData\CMSY\\20150818-22358.b\\1YF18011.D  
 Injection Date: 18-Aug-2015 16:25:30 Instrument ID: CMSY  
 Lims ID: 680-115692-A-3-A Lab Sample ID: 680-115692-3  
 Client ID: CV0511NN-CS-12  
 Operator ID: LIMS import ALS Bottle#: 11 Worklist Smp#: 11  
 Injection Vol: 2.0 ul Dil. Factor: 1.0000  
 Method: 8270D\_LLPAH\_MSY Limit Group: 8270D\_LL\_PAH  
 Column: Restek RXi-5Sil MS ( 0.25 mm) Detector MS SCAN

### 28 Benzo[g,h,i]perylene, CAS: 191-24-2



TestAmerica Savannah  
 Data File: \\ChromNA\\Savannah\\ChromData\\CMSY\\20150818-22358.b\\1YF18011.D  
 Injection Date: 18-Aug-2015 16:25:30 Instrument ID: CMSY  
 Lims ID: 680-115692-A-3-A Lab Sample ID: 680-115692-3  
 Client ID: CV0511NN-CS-12  
 Operator ID: LIMS import ALS Bottle#: 11 Worklist Smp#: 11  
 Injection Vol: 2.0 ul Dil. Factor: 1.0000  
 Method: 8270D\_LLPAH\_MSY Limit Group: 8270D\_LL\_PAH  
 Column: Restek RXi-5Sil MS ( 0.25 mm) Detector MS SCAN

### 24 Benzo[k]fluoranthene, CAS: 207-08-9



TestAmerica Savannah

Data File: \\ChromNA\\Savannah\\ChromData\CMSY\\20150818-22358.b\\1YF18011.D

Injection Date: 18-Aug-2015 16:25:30

Instrument ID: CMSY

Lims ID: 680-115692-A-3-A

Lab Sample ID: 680-115692-3

Client ID: CV0511NN-CS-12

Operator ID: LIMS import

ALS Bottle#: 11 Worklist Smp#: 11

Injection Vol: 2.0 ul

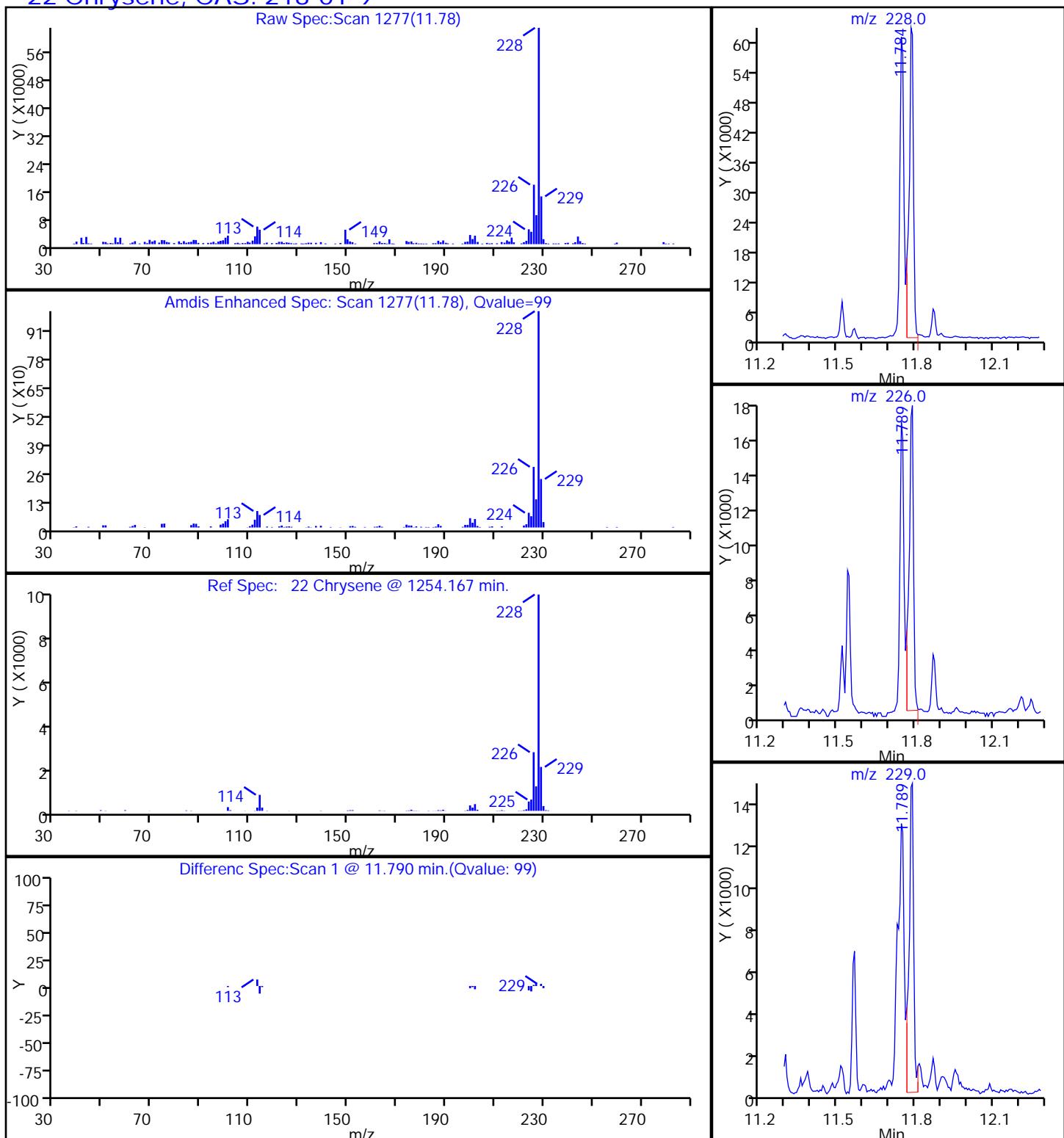
Dil. Factor: 1.0000

Method: 8270D\_LLPAH\_MSY

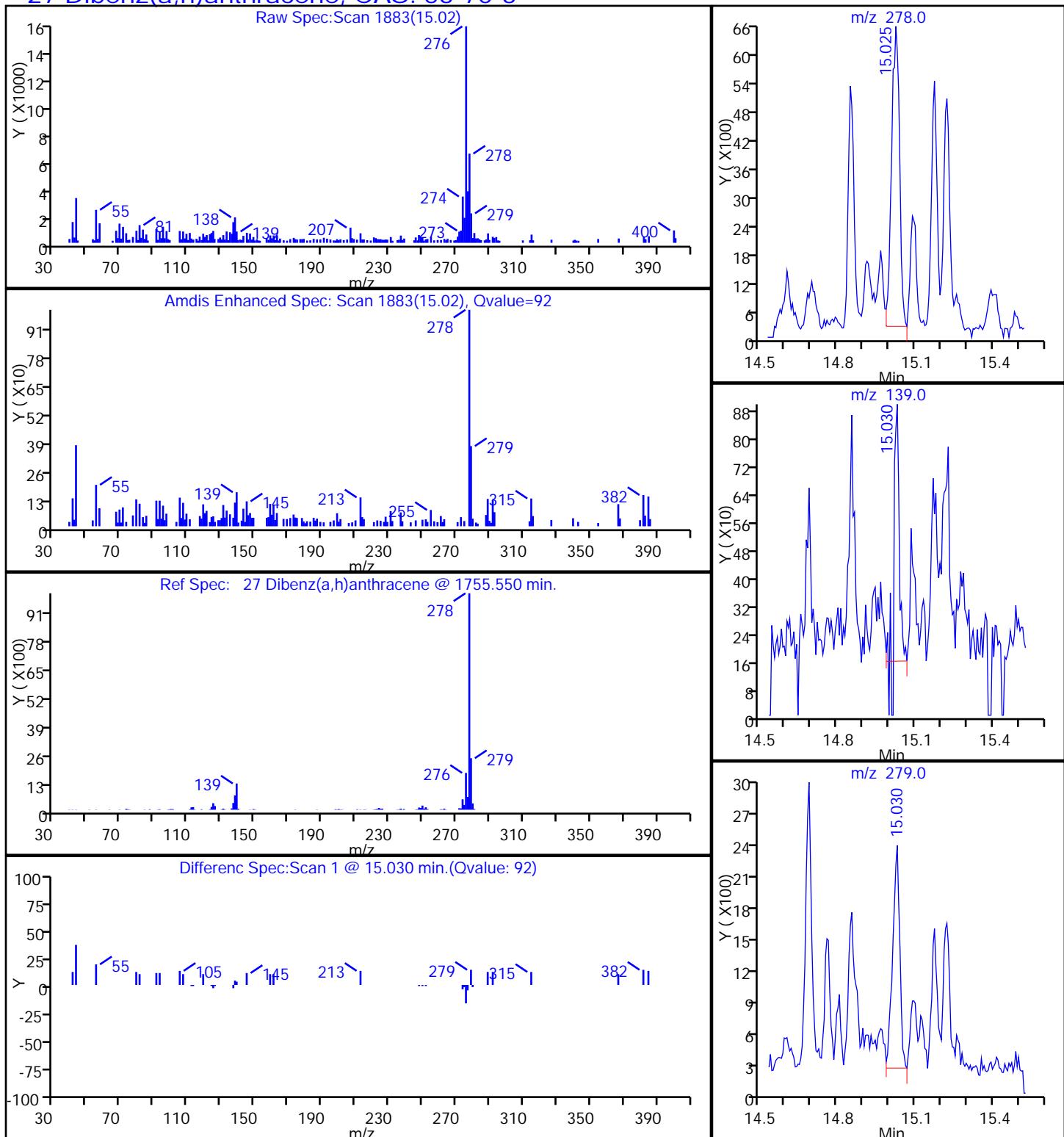
Limit Group: 8270D\_LL\_PAH

Column: Restek RXi-5Sil MS ( 0.25 mm)

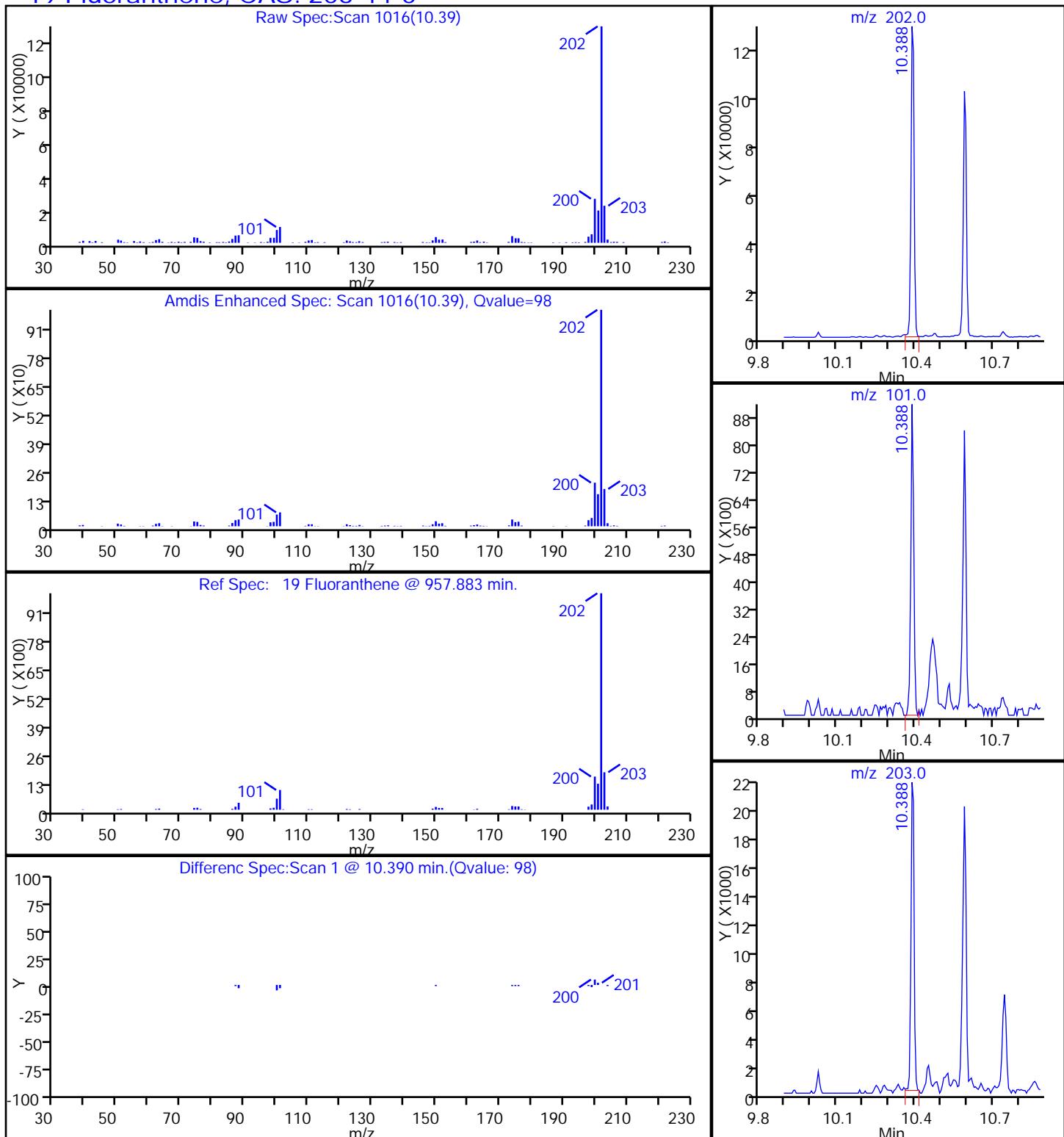
Detector MS SCAN

**22 Chrysene, CAS: 218-01-9**

TestAmerica Savannah  
 Data File: \\ChromNA\\Savannah\\ChromData\\CMSY\\20150818-22358.b\\1YF18011.D  
 Injection Date: 18-Aug-2015 16:25:30 Instrument ID: CMSY  
 Lims ID: 680-115692-A-3-A Lab Sample ID: 680-115692-3  
 Client ID: CV0511NN-CS-12  
 Operator ID: LIMS import ALS Bottle#: 11 Worklist Smp#: 11  
 Injection Vol: 2.0 ul Dil. Factor: 1.0000  
 Method: 8270D\_LLPAH\_MSY Limit Group: 8270D\_LL\_PAH  
 Column: Restek RXi-5Sil MS ( 0.25 mm) Detector MS SCAN

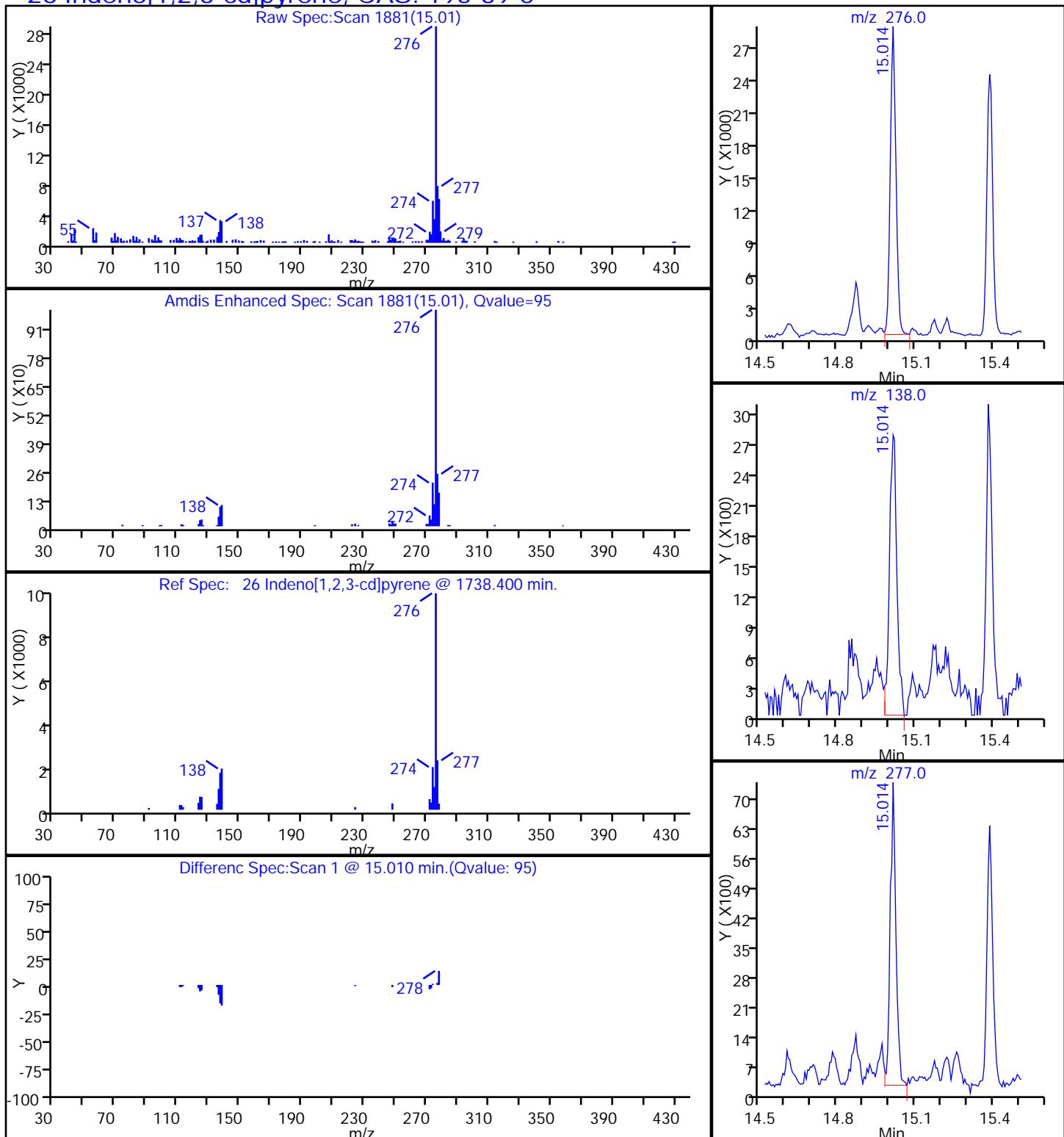
**27 Dibenz(a,h)anthracene, CAS: 53-70-3**

TestAmerica Savannah  
 Data File: \\ChromNA\\Savannah\\ChromData\\CMSY\\20150818-22358.b\\1YF18011.D  
 Injection Date: 18-Aug-2015 16:25:30 Instrument ID: CMSY  
 Lims ID: 680-115692-A-3-A Lab Sample ID: 680-115692-3  
 Client ID: CV0511NN-CS-12  
 Operator ID: LIMS import ALS Bottle#: 11 Worklist Smp#: 11  
 Injection Vol: 2.0 ul Dil. Factor: 1.0000  
 Method: 8270D\_LLPAH\_MSY Limit Group: 8270D\_LL\_PAH  
 Column: Restek RXi-5Sil MS ( 0.25 mm) Detector MS SCAN

**19 Fluoranthene, CAS: 206-44-0**

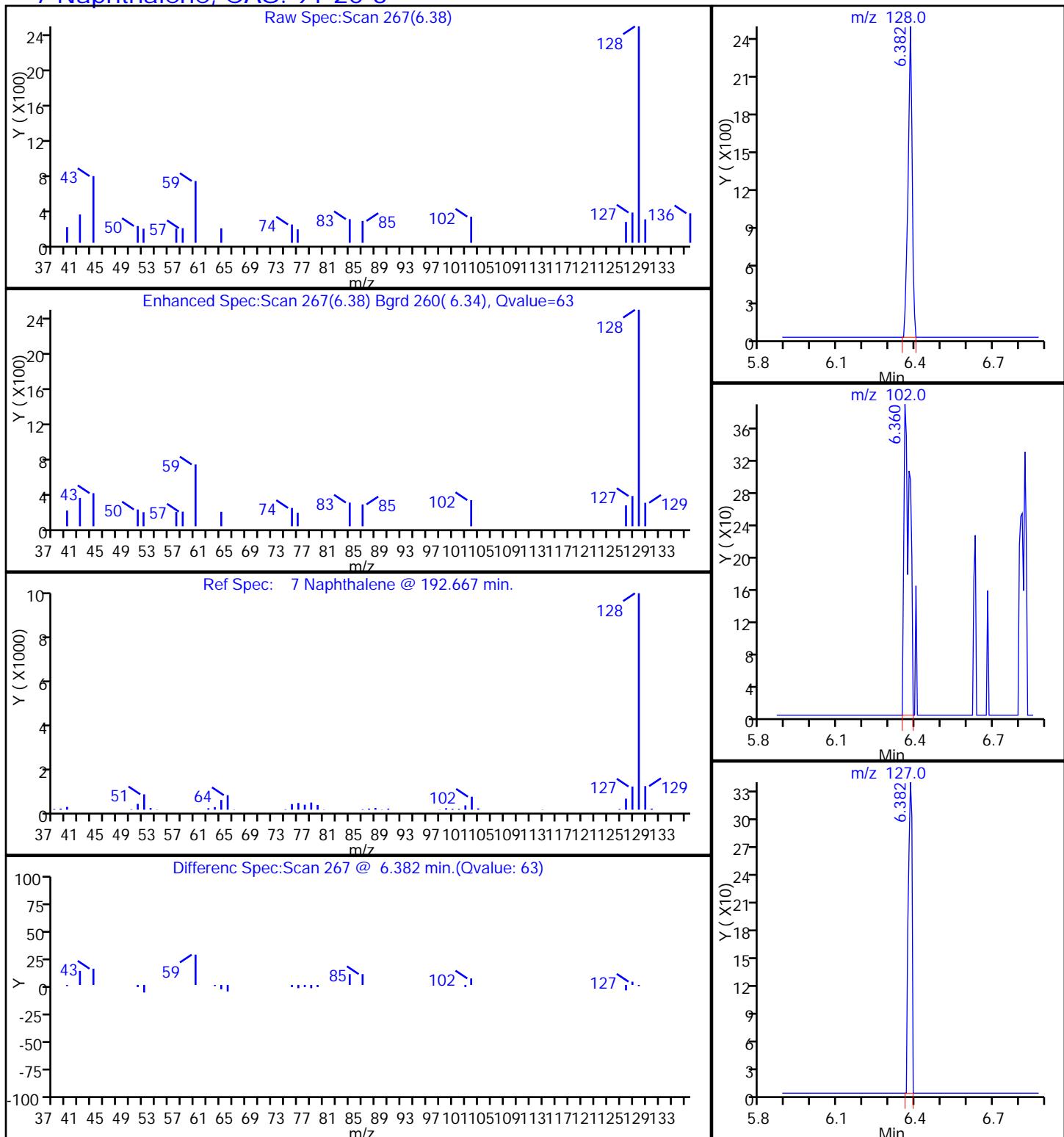
TestAmerica Savannah  
 Data File: \\ChromNA\\Savannah\\ChromData\CMSY\\20150818-22358.b\\1YF18011.D  
 Injection Date: 18-Aug-2015 16:25:30 Instrument ID: CMSY  
 Lims ID: 680-115692-A-3-A Lab Sample ID: 680-115692-3  
 Client ID: CV0511NN-CS-12  
 Operator ID: LIMS import ALS Bottle#: 11 Worklist Smp#: 11  
 Injection Vol: 2.0 ul Dil. Factor: 1.0000  
 Method: 8270D\_LLPAH\_MSY Limit Group: 8270D\_LL\_PAH  
 Column: Restek RXi-5Sil MS ( 0.25 mm) Detector MS SCAN

### 26 Indeno[1,2,3-cd]pyrene, CAS: 193-39-5



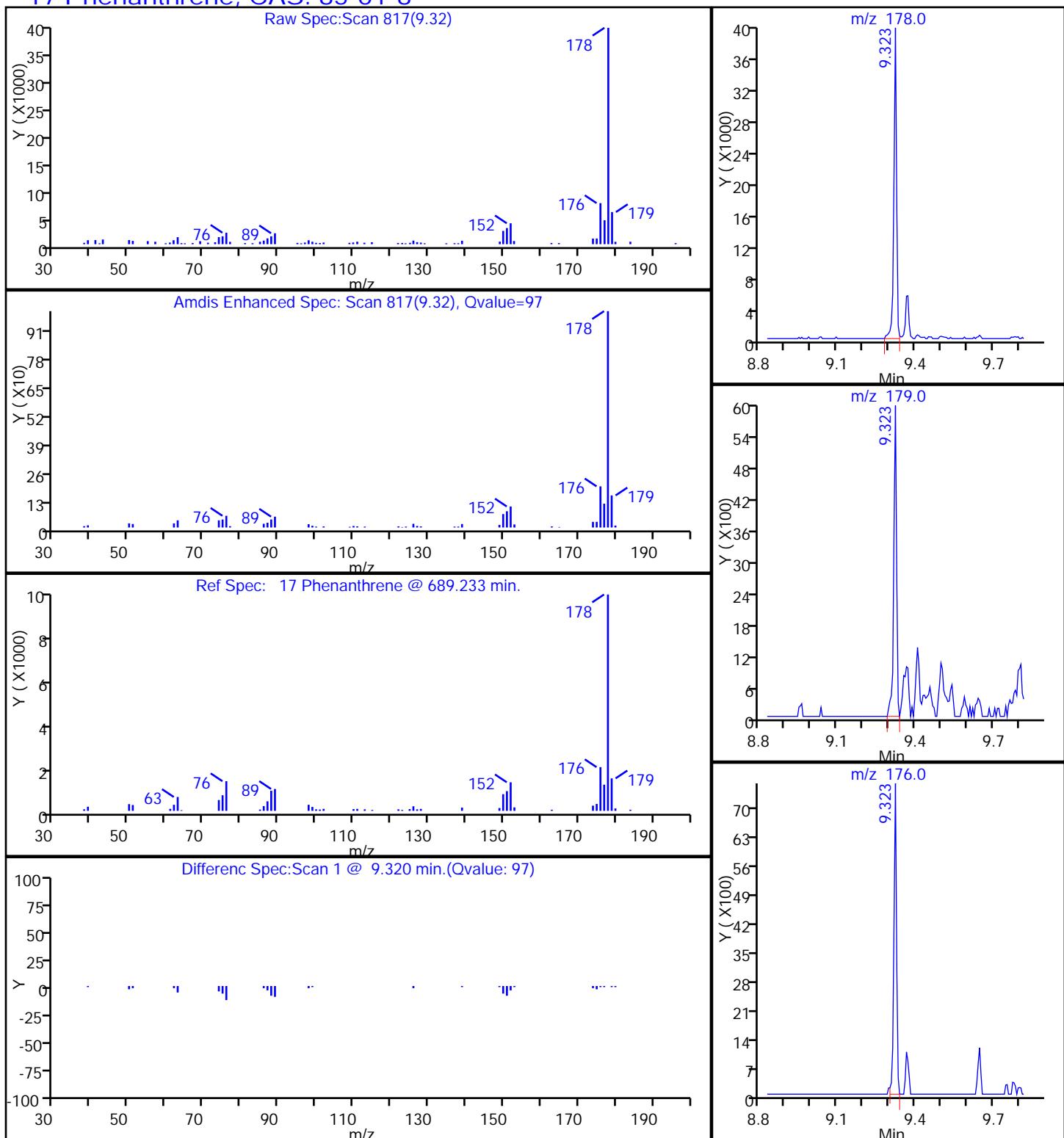
TestAmerica Savannah  
 Data File: \\ChromNA\\Savannah\\ChromData\\CMSY\\20150818-22358.b\\1YF18011.D  
 Injection Date: 18-Aug-2015 16:25:30 Instrument ID: CMSY  
 Lims ID: 680-115692-A-3-A Lab Sample ID: 680-115692-3  
 Client ID: CV0511NN-CS-12  
 Operator ID: LIMS import ALS Bottle#: 11 Worklist Smp#: 11  
 Injection Vol: 2.0 ul Dil. Factor: 1.0000  
 Method: 8270D\_LLPAH\_MSY Limit Group: 8270D\_LL\_PAH  
 Column: Restek RXi-5Sil MS ( 0.25 mm) Detector: MS SCAN

### 7 Naphthalene, CAS: 91-20-3



TestAmerica Savannah  
 Data File: \\ChromNA\\Savannah\\ChromData\\CMSY\\20150818-22358.b\\1YF18011.D  
 Injection Date: 18-Aug-2015 16:25:30 Instrument ID: CMSY  
 Lims ID: 680-115692-A-3-A Lab Sample ID: 680-115692-3  
 Client ID: CV0511NN-CS-12  
 Operator ID: LIMS import ALS Bottle#: 11 Worklist Smp#: 11  
 Injection Vol: 2.0 ul Dil. Factor: 1.0000  
 Method: 8270D\_LLPAH\_MSY Limit Group: 8270D\_LL\_PAH  
 Column: Restek RXi-5Sil MS ( 0.25 mm) Detector MS SCAN

### 17 Phenanthrene, CAS: 85-01-8



TestAmerica Savannah

Data File: \\ChromNA\\Savannah\\ChromData\\CMSY\\20150818-22358.b\\1YF18011.D

Injection Date: 18-Aug-2015 16:25:30

Instrument ID: CMSY

Lims ID: 680-115692-A-3-A

Lab Sample ID: 680-115692-3

Client ID: CV0511NN-CS-12

Operator ID: LIMS import

ALS Bottle#: 11 Worklist Smp#: 11

Injection Vol: 2.0 ul

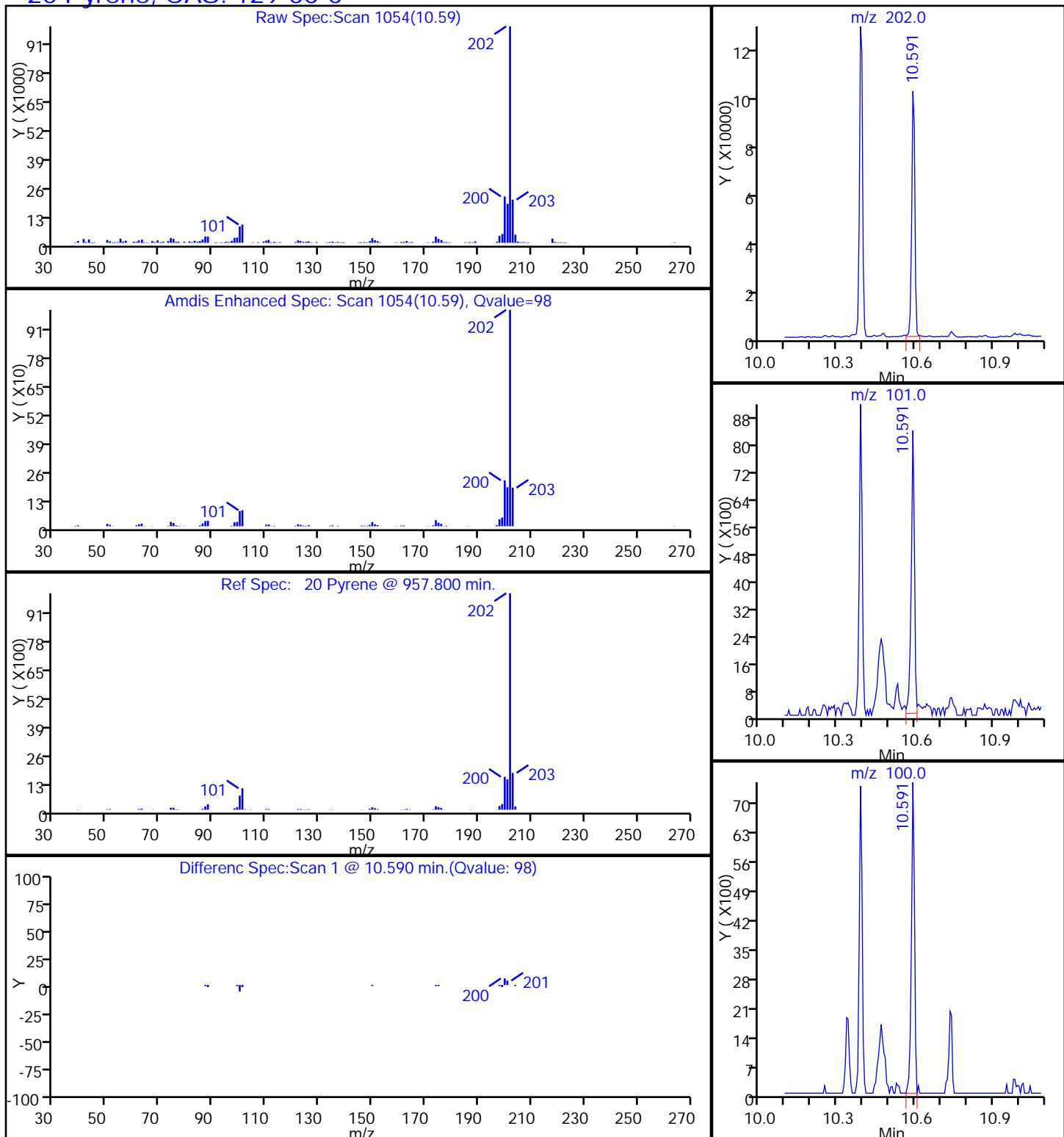
Dil. Factor: 1.0000

Method: 8270D\_LLPAH\_MSY

Limit Group: 8270D\_LL\_PAH

Column: Restek RXi-5Sil MS ( 0.25 mm)

Detector: MS SCAN

**20 Pyrene, CAS: 129-00-0**

FORM I  
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Savannah Job No.: 680-115692-1  
 SDG No.: 680-115692-01  
 Client Sample ID: CV0511NN-CS-18 Lab Sample ID: 680-115692-4  
 Matrix: Solid Lab File ID: 1YF18012.D  
 Analysis Method: 8270D\_LL\_PAH Date Collected: 08/10/2015 14:10  
 Extract. Method: 3546 Date Extracted: 08/17/2015 10:44  
 Sample wt/vol: 29.94(g) Date Analyzed: 08/18/2015 16:54  
 Con. Extract Vol.: 1(mL) Dilution Factor: 1  
 Injection Volume: 2(uL) Level: (low/med) Low  
 % Moisture: 18.2 GPC Cleanup: (Y/N) N  
 Analysis Batch No.: 396712 Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	8.2	U	8.2	4.0
208-96-8	Acenaphthylene	4.7	J	8.2	4.0
120-12-7	Anthracene	11		8.2	4.0
56-55-3	Benzo[a]anthracene	66		8.2	4.0
50-32-8	Benzo[a]pyrene	66		8.2	1.5
205-99-2	Benzo[b]fluoranthene	140		8.2	4.0
191-24-2	Benzo[g,h,i]perylene	35		8.2	4.0
207-08-9	Benzo[k]fluoranthene	42		8.2	2.4
218-01-9	Chrysene	83		8.2	4.0
53-70-3	Dibenz(a,h)anthracene	13		8.2	4.0
206-44-0	Fluoranthene	110		8.2	4.0
86-73-7	Fluorene	8.2	U	8.2	4.0
193-39-5	Indeno[1,2,3-cd]pyrene	26		8.2	4.0
90-12-0	1-Methylnaphthalene	14		8.2	3.8
91-57-6	2-Methylnaphthalene	16		8.2	4.0
91-20-3	Naphthalene	17		8.2	4.0
85-01-8	Phenanthrene	57		8.2	2.9
129-00-0	Pyrene	86		8.2	4.0

CAS NO.	SURROGATE	%REC	Q	LIMITS
84-15-1	o-Terphenyl	81		36-131

TestAmerica Savannah  
Target Compound Quantitation Report

Data File: \\ChromNA\Savannah\ChromData\CMSY\20150818-22358.b\1YF18012.D  
 Lims ID: 680-115692-A-4-A Lab Sample ID: 680-115692-4  
 Client ID: CV0511NN-CS-18  
 Sample Type: Client  
 Inject. Date: 18-Aug-2015 16:54:30 ALS Bottle#: 12 Worklist Smp#: 12  
 Injection Vol: 2.0 ul Dil. Factor: 1.0000  
 Sample Info: 680-115692-A-4-A  
 Misc. Info.: 680-0022358-012  
 Operator ID: LIMS import Instrument ID: CMSY  
 Method: \\ChromNA\Savannah\ChromData\CMSY\20150818-22358.b\8270D\_LLPAH\_MSY.m  
 Limit Group: 8270D\_LL\_PAH  
 Last Update: 19-Aug-2015 11:22:28 Calib Date: 12-Aug-2015 16:37:30  
 Integrator: RTE ID Type: Deconvolution ID  
 Quant Method: Internal Standard Quant By: Initial Calibration  
 Last ICal File: \\ChromNA\Savannah\ChromData\CMSY\20150812-22174.b\1YF12008.D  
 Column 1 : Restek RXi-5Sil MS ( 0.25 mm) Det: MS SCAN  
 Process Host: XAWRK003

First Level Reviewer: millsj Date: 19-Aug-2015 10:44:41

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/ml	Flags
* 1 Naphthalene-d8	136	6.360	6.366	-0.006	99	47696	2.00	
* 2 Acenaphthene-d10	164	7.970	7.975	-0.005	97	26203	2.00	
* 3 Phenanthrene-d10	188	9.302	9.307	-0.005	97	57913	2.00	
* 4 Chrysene-d12	240	11.762	11.773	-0.011	98	83740	2.00	
* 5 Perylene-d12	264	13.533	13.538	-0.005	98	77591	2.00	
\$ 6 o-Terphenyl	230	9.650	9.655	-0.005	90	31118	1.63	
7 Naphthalene	128	6.382	6.387	-0.005	98	8786	0.4081	
9 2-Methylnaphthalene	142	7.034	7.034	0.000	82	5866	0.3812	
10 1-Methylnaphthalene	142	7.120	7.120	0.000	90	4742	0.3471	
12 Acenaphthylene	152	7.847	7.847	0.000	98	2749	0.1148	
14 Acenaphthene	153	7.997	8.002	-0.005	40	1111	0.0709	
16 Fluorene	166	8.468	8.468	0.000	65	1338	0.0743	
17 Phenanthrene	178	9.323	9.329	-0.006	97	38633	1.40	
18 Anthracene	178	9.372	9.371	0.001	98	6265	0.2636	
19 Fluoranthene	202	10.393	10.398	-0.005	98	90409	2.72	
20 Pyrene	202	10.591	10.602	-0.011	98	77262	2.11	
21 Benzo[a]anthracene	228	11.752	11.762	-0.010	96	65592	1.63	
22 Chrysene	228	11.789	11.805	-0.016	99	78661	2.04	
23 Benzo[b]fluoranthene	252	13.035	13.041	-0.006	96	127514	3.36	
24 Benzo[k]fluoranthene	252	13.062	13.078	-0.016	96	38301	1.03	
25 Benzo[a]pyrene	252	13.458	13.469	-0.011	98	57388	1.63	
26 Indeno[1,2,3-cd]pyrene	276	15.025	15.025	0.000	96	39751	0.6456	
27 Dibenz(a,h)anthracene	278	15.036	15.041	-0.005	94	14158	0.3290	
28 Benzo[g,h,i]perylene	276	15.400	15.399	0.001	96	35353	0.8619	

**Reagents:**

SM-LLISTD_00128	Amount Added: 10.00	Units: uL	Run Reagent
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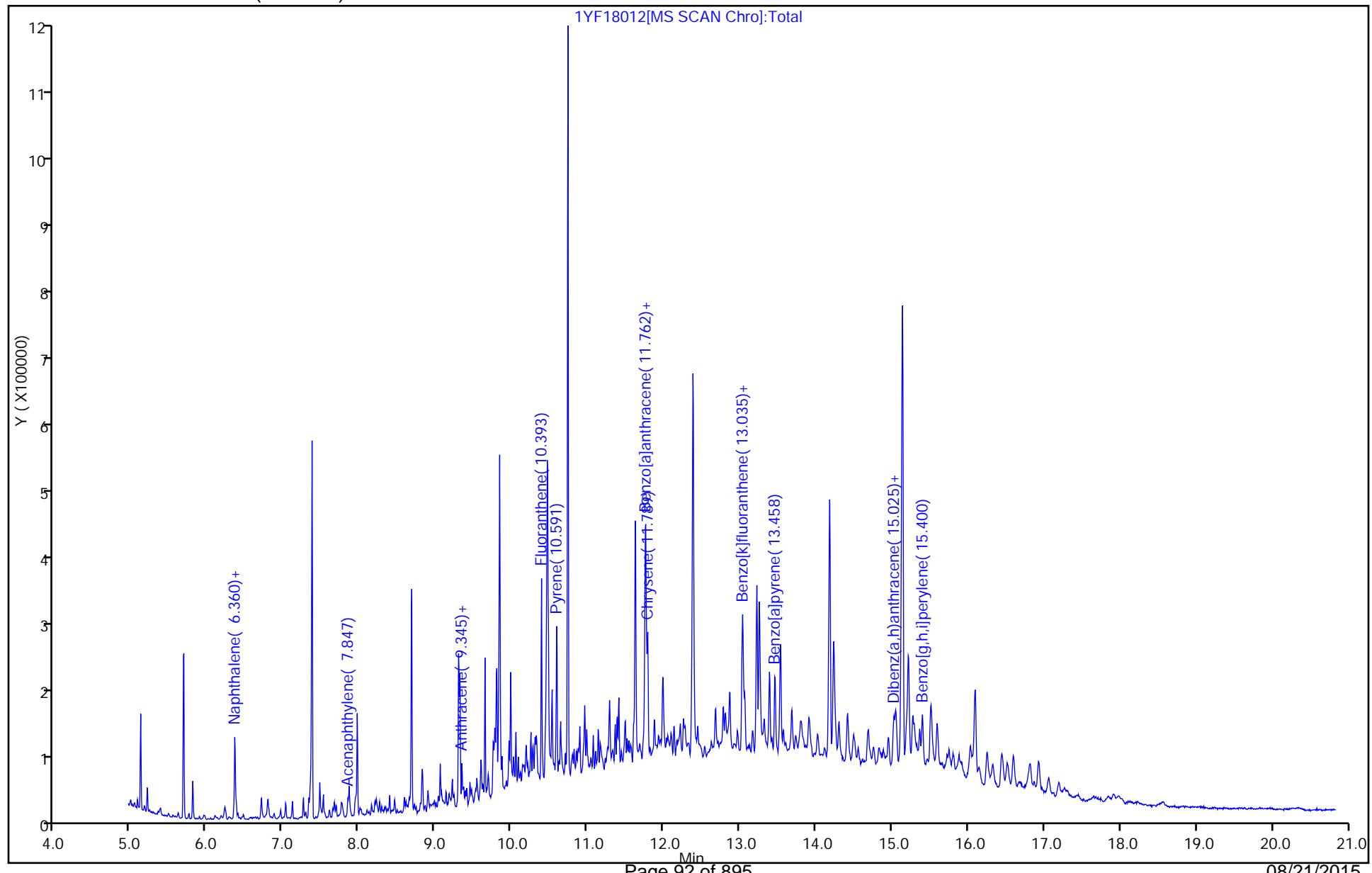
Report Date: 19-Aug-2015 11:22:40

Chrom Revision: 2.2 23-Jul-2015 08:26:08

## TestAmerica Savannah

Data File: \\ChromNA\\Savannah\\ChromData\\CMSY\\20150818-22358.b\\1YF18012.D  
Injection Date: 18-Aug-2015 16:54:30 Instrument ID: CMSY  
Lims ID: 680-115692-A-4-A Lab Sample ID: 680-115692-4  
Client ID: CV0511NN-CS-18  
Injection Vol: 2.0 ul Dil. Factor: 1.0000  
Method: 8270D\_LLPAH\_MSY Limit Group: 8270D\_LL\_PAH  
Column: Restek RXi-5Sil MS ( 0.25 mm)

Operator ID: LIMS import  
Worklist Smp#: 12



TestAmerica Savannah

Data File: \\ChromNA\\Savannah\\ChromData\\CMSY\\20150818-22358.b\\1YF18012.D

Injection Date: 18-Aug-2015 16:54:30

Instrument ID: CMSY

Lims ID: 680-115692-A-4-A

Lab Sample ID: 680-115692-4

Client ID: CV0511NN-CS-18

Operator ID: LIMS import

ALS Bottle#: 12 Worklist Smp#: 12

Injection Vol: 2.0 ul

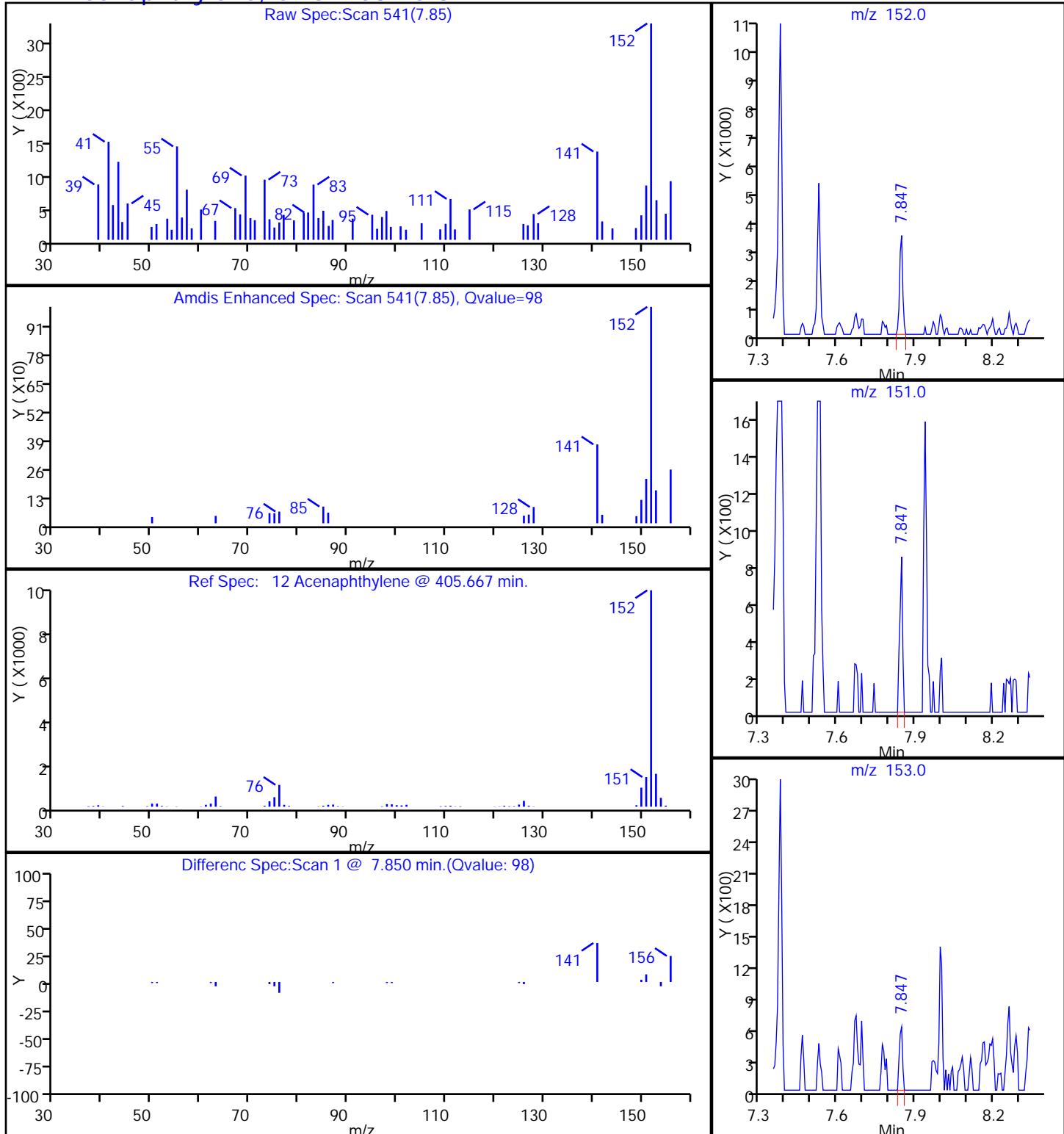
Dil. Factor: 1.0000

Method: 8270D\_LLPAH\_MSY

Limit Group: 8270D\_LL\_PAH

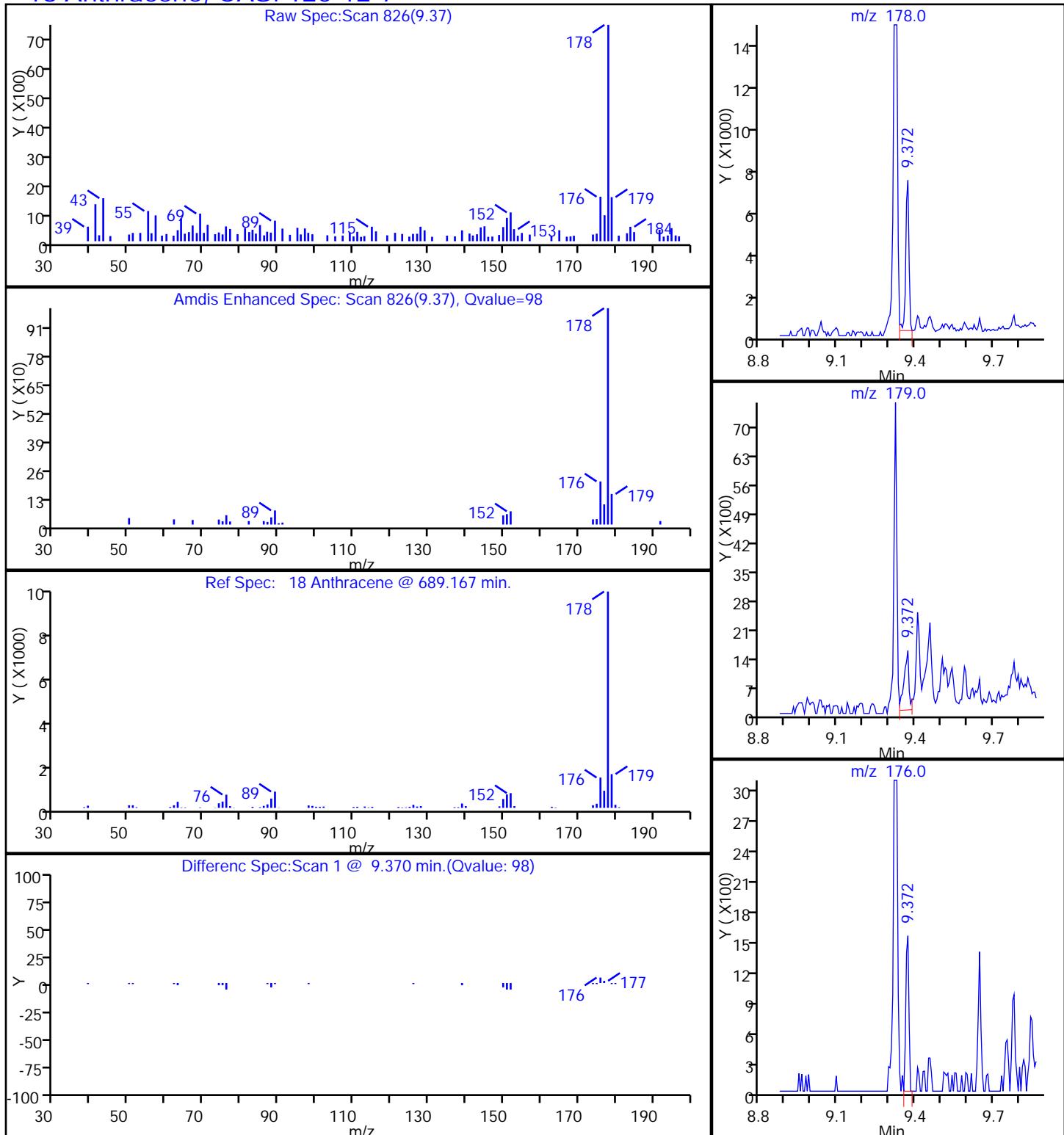
Column: Restek RXi-5Sil MS ( 0.25 mm)

Detector: MS SCAN

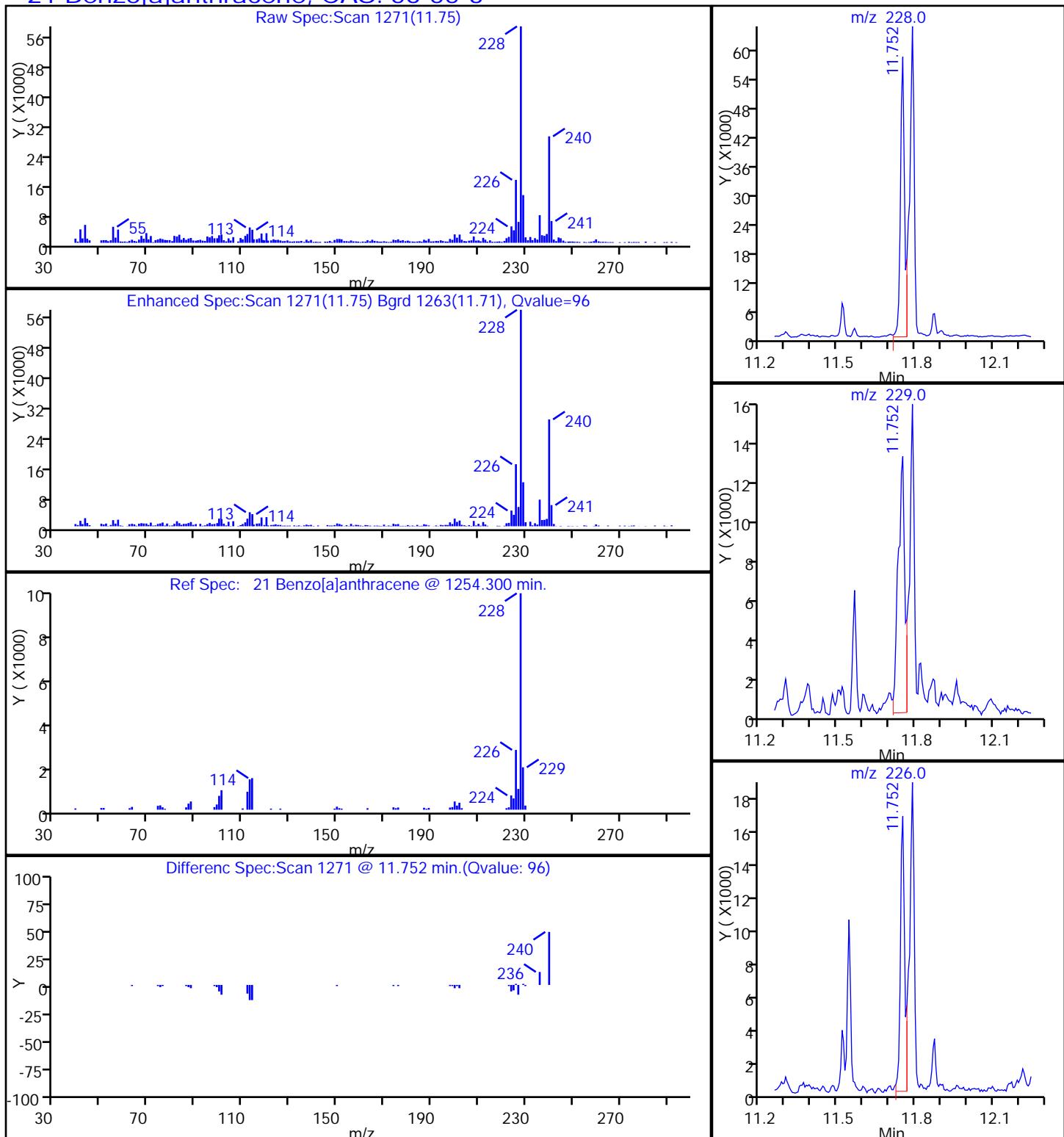
**12 Acenaphthylene, CAS: 208-96-8**

TestAmerica Savannah  
 Data File: \\ChromNA\\Savannah\\ChromData\\CMSY\\20150818-22358.b\\1YF18012.D  
 Injection Date: 18-Aug-2015 16:54:30 Instrument ID: CMSY  
 Lims ID: 680-115692-A-4-A Lab Sample ID: 680-115692-4  
 Client ID: CV0511NN-CS-18  
 Operator ID: LIMS import ALS Bottle#: 12 Worklist Smp#: 12  
 Injection Vol: 2.0 ul Dil. Factor: 1.0000  
 Method: 8270D\_LLPAH\_MSY Limit Group: 8270D\_LL\_PAH  
 Column: Restek RXi-5Sil MS ( 0.25 mm) Detector: MS SCAN

### 18 Anthracene, CAS: 120-12-7



TestAmerica Savannah  
 Data File: \\ChromNA\\Savannah\\ChromData\CMSY\\20150818-22358.b\\1YF18012.D  
 Injection Date: 18-Aug-2015 16:54:30 Instrument ID: CMSY  
 Lims ID: 680-115692-A-4-A Lab Sample ID: 680-115692-4  
 Client ID: CV0511NN-CS-18  
 Operator ID: LIMS import ALS Bottle#: 12 Worklist Smp#: 12  
 Injection Vol: 2.0 ul Dil. Factor: 1.0000  
 Method: 8270D\_LLPAH\_MSY Limit Group: 8270D\_LL\_PAH  
 Column: Restek RXi-5Sil MS ( 0.25 mm) Detector MS SCAN

**21 Benzo[a]anthracene, CAS: 56-55-3**

TestAmerica Savannah

Data File: \\ChromNA\\Savannah\\ChromData\CMSY\\20150818-22358.b\\1YF18012.D

Injection Date: 18-Aug-2015 16:54:30

Instrument ID: CMSY

Lims ID: 680-115692-A-4-A

Lab Sample ID: 680-115692-4

Client ID: CV0511NN-CS-18

Operator ID: LIMS import

ALS Bottle#: 12 Worklist Smp#: 12

Injection Vol: 2.0 ul

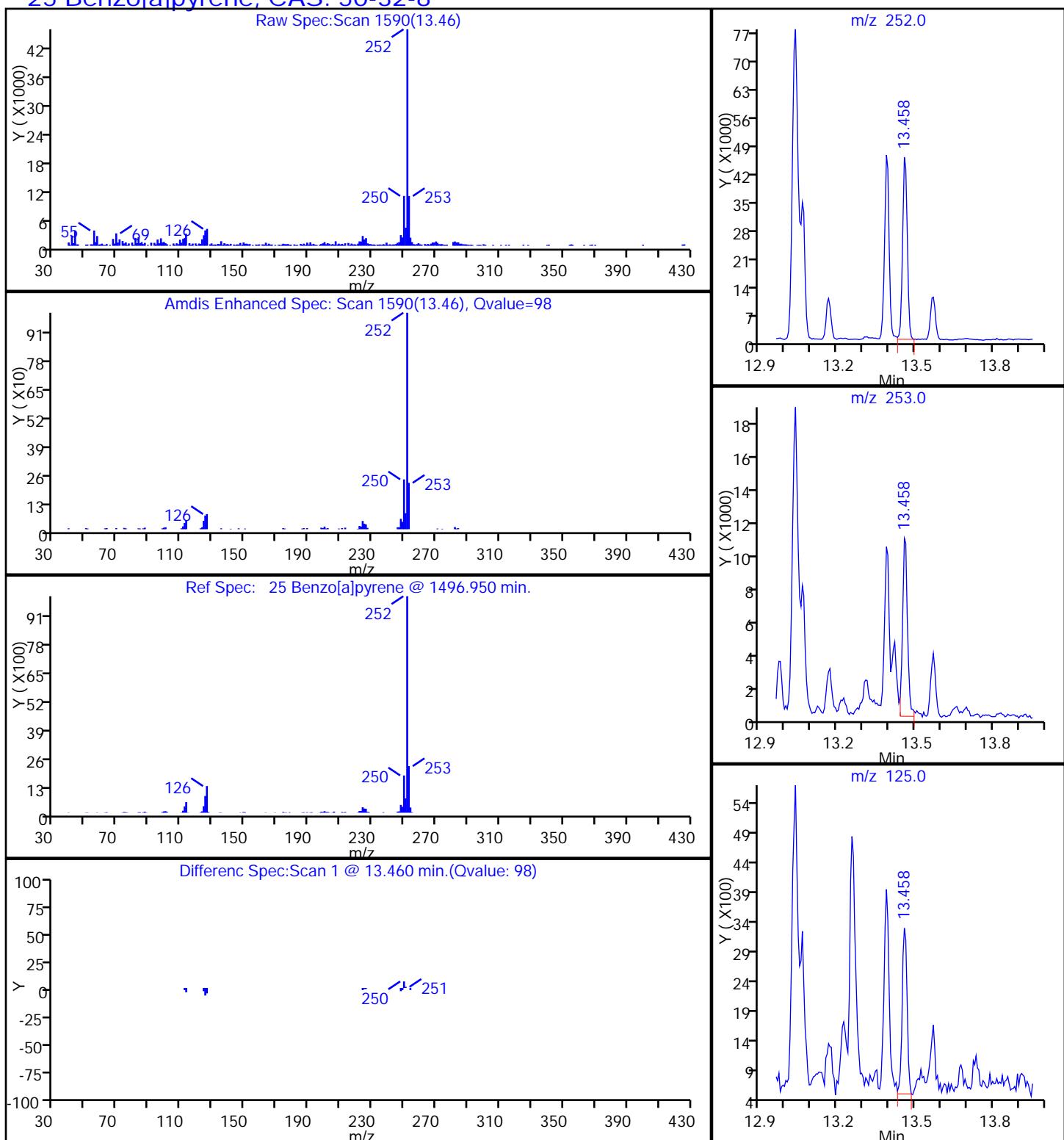
Dil. Factor: 1.0000

Method: 8270D\_LLPAH\_MSY

Limit Group: 8270D\_LL\_PAH

Column: Restek RXi-5Sil MS ( 0.25 mm)

Detector MS SCAN

**25 Benzo[a]pyrene, CAS: 50-32-8**

TestAmerica Savannah

Data File: \\ChromNA\\Savannah\\ChromData\CMSY\\20150818-22358.b\\1YF18012.D

Injection Date: 18-Aug-2015 16:54:30

Instrument ID: CMSY

Lims ID: 680-115692-A-4-A

Lab Sample ID: 680-115692-4

Client ID: CV0511NN-CS-18

Operator ID: LIMS import

ALS Bottle#: 12 Worklist Smp#: 12

Injection Vol: 2.0 ul

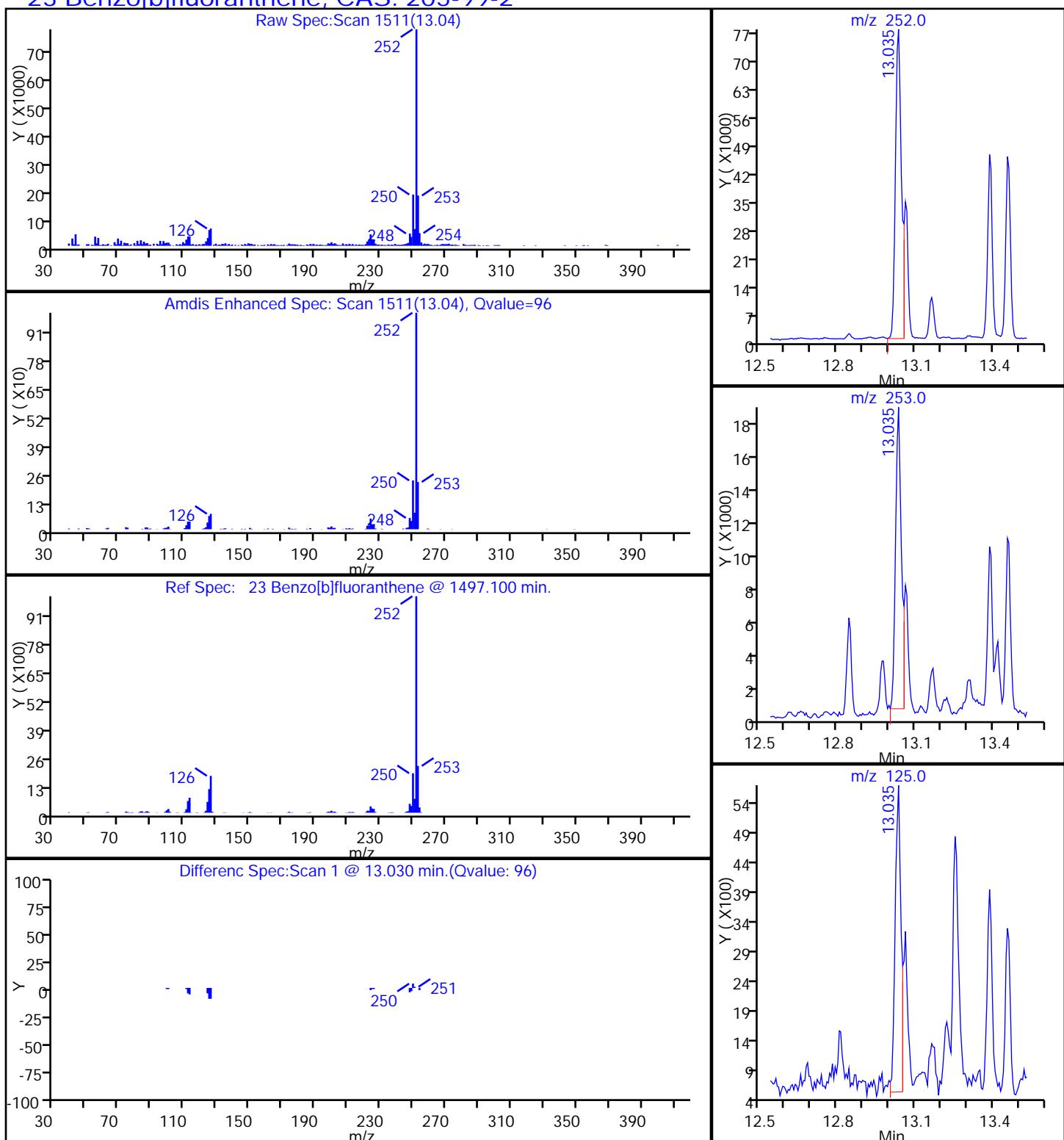
Dil. Factor: 1.0000

Method: 8270D\_LLPAH\_MSY

Limit Group: 8270D\_LL\_PAH

Column: Restek RXi-5Sil MS ( 0.25 mm)

Detector MS SCAN

**23 Benzo[b]fluoranthene, CAS: 205-99-2**

TestAmerica Savannah

Data File: \\ChromNA\\Savannah\\ChromData\CMSY\\20150818-22358.b\\1YF18012.D

Injection Date: 18-Aug-2015 16:54:30

Instrument ID: CMSY

Lims ID: 680-115692-A-4-A

Lab Sample ID: 680-115692-4

Client ID: CV0511NN-CS-18

Operator ID: LIMS import

ALS Bottle#: 12 Worklist Smp#: 12

Injection Vol: 2.0 ul

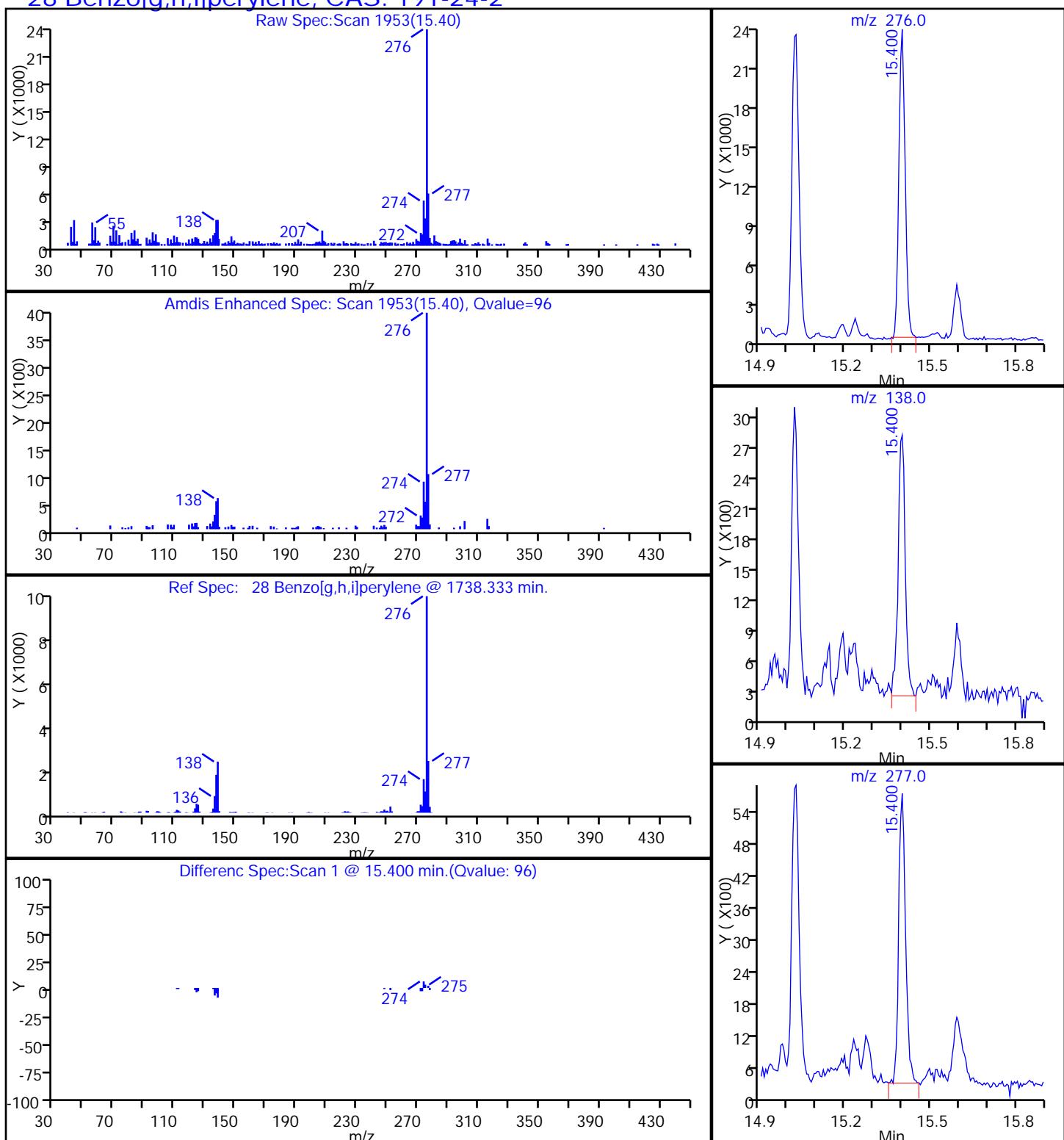
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Method: 8270D\_LLPAH\_MSY

Limit Group: 8270D\_LL\_PAH

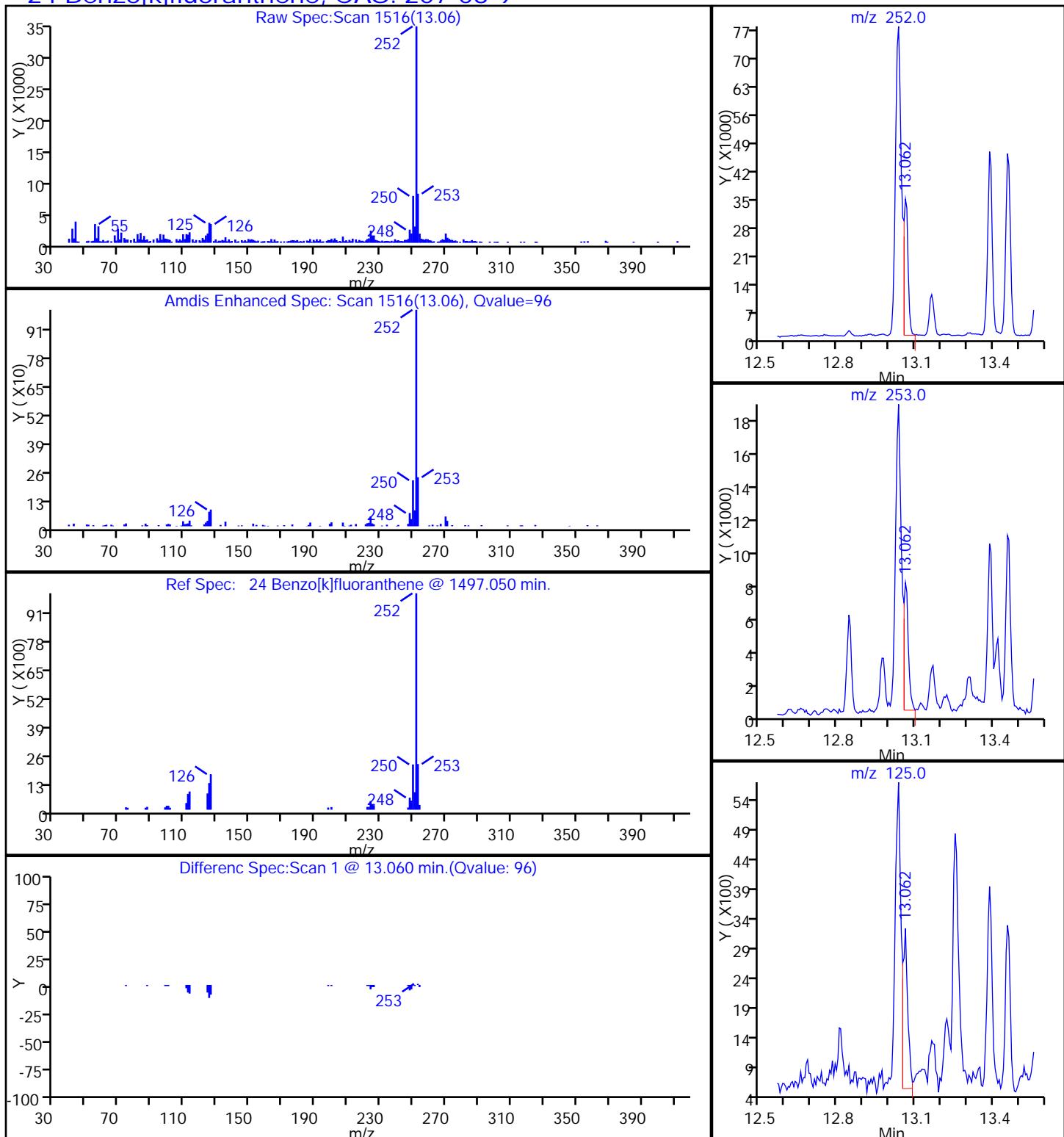
Column: Restek RXi-5Sil MS ( 0.25 mm)

Detector: MS SCAN

**28 Benzo[g,h,i]perylene, CAS: 191-24-2**

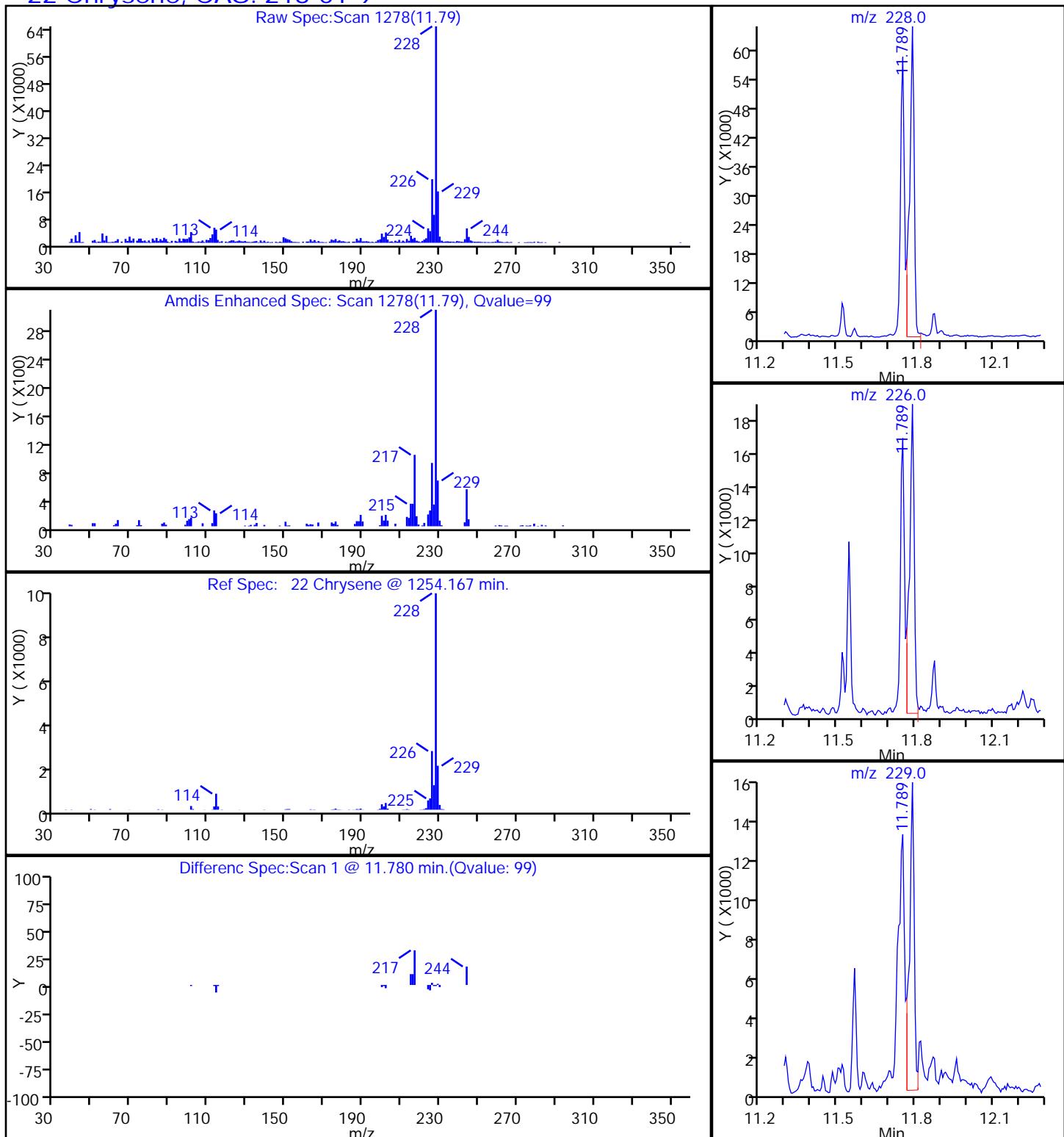
TestAmerica Savannah  
 Data File: \\ChromNA\\Savannah\\ChromData\\CMSY\\20150818-22358.b\\1YF18012.D  
 Injection Date: 18-Aug-2015 16:54:30 Instrument ID: CMSY  
 Lims ID: 680-115692-A-4-A Lab Sample ID: 680-115692-4  
 Client ID: CV0511NN-CS-18  
 Operator ID: LIMS import ALS Bottle#: 12 Worklist Smp#: 12  
 Injection Vol: 2.0 ul Dil. Factor: 1.0000  
 Method: 8270D\_LLPAH\_MSY Limit Group: 8270D\_LL\_PAH  
 Column: Restek RXi-5Sil MS ( 0.25 mm) Detector MS SCAN

### 24 Benzo[k]fluoranthene, CAS: 207-08-9

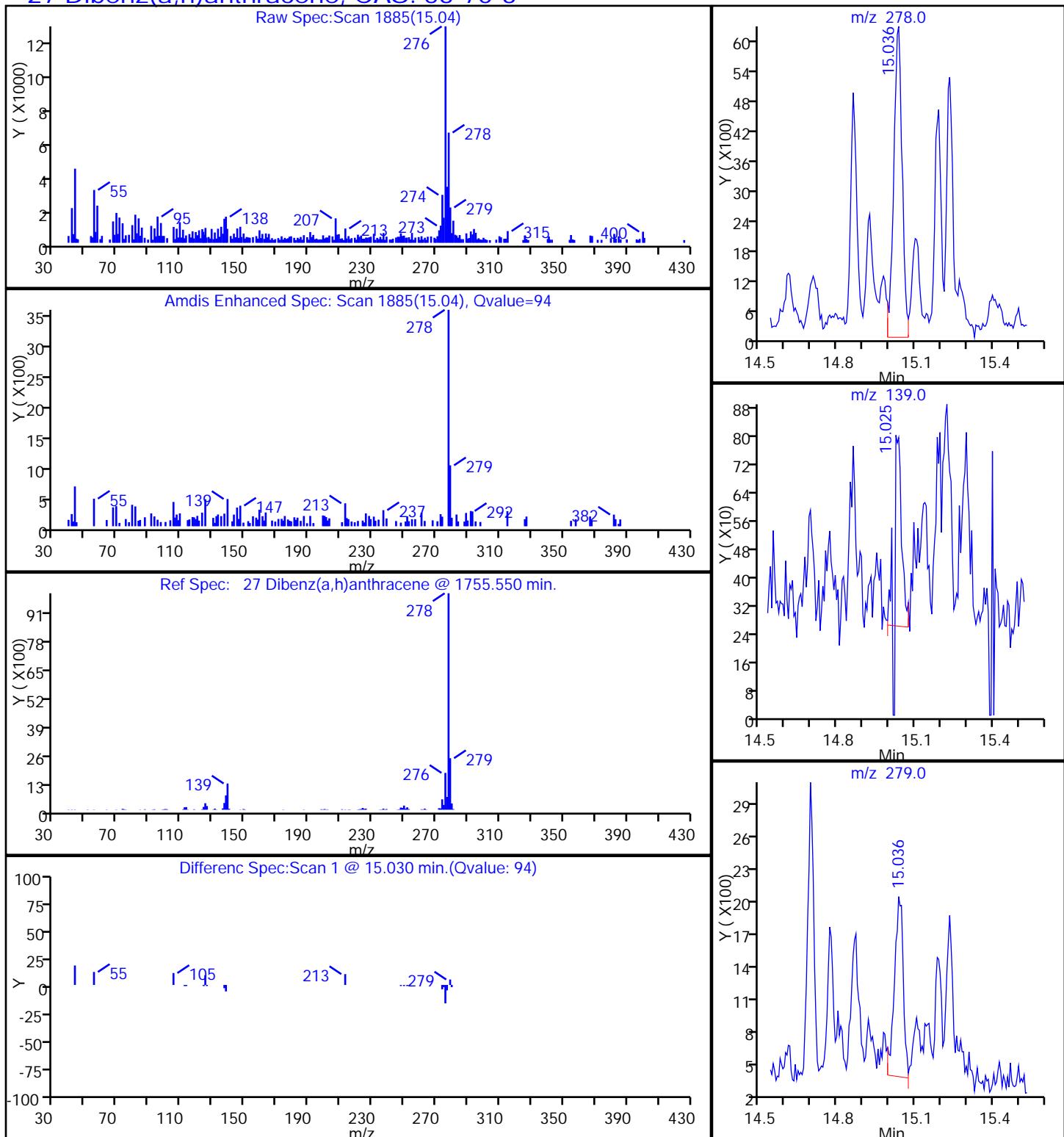


TestAmerica Savannah  
 Data File: \\ChromNA\\Savannah\\ChromData\CMSY\\20150818-22358.b\\1YF18012.D  
 Injection Date: 18-Aug-2015 16:54:30 Instrument ID: CMSY  
 Lims ID: 680-115692-A-4-A Lab Sample ID: 680-115692-4  
 Client ID: CV0511NN-CS-18  
 Operator ID: LIMS import ALS Bottle#: 12 Worklist Smp#: 12  
 Injection Vol: 2.0 ul Dil. Factor: 1.0000  
 Method: 8270D\_LLPAH\_MSY Limit Group: 8270D\_LL\_PAH  
 Column: Restek RXi-5Sil MS ( 0.25 mm) Detector: MS SCAN

### 22 Chrysene, CAS: 218-01-9



TestAmerica Savannah  
 Data File: \\ChromNA\\Savannah\\ChromData\\CMSY\\20150818-22358.b\\1YF18012.D  
 Injection Date: 18-Aug-2015 16:54:30 Instrument ID: CMSY  
 Lims ID: 680-115692-A-4-A Lab Sample ID: 680-115692-4  
 Client ID: CV0511NN-CS-18  
 Operator ID: LIMS import ALS Bottle#: 12 Worklist Smp#: 12  
 Injection Vol: 2.0 ul Dil. Factor: 1.0000  
 Method: 8270D\_LLPAH\_MSY Limit Group: 8270D\_LL\_PAH  
 Column: Restek RXi-5Sil MS ( 0.25 mm) Detector MS SCAN

**27 Dibenz(a,h)anthracene, CAS: 53-70-3**

TestAmerica Savannah

Data File: \\ChromNA\\Savannah\\ChromData\CMSY\\20150818-22358.b\\1YF18012.D

Injection Date: 18-Aug-2015 16:54:30

Instrument ID: CMSY

Lims ID: 680-115692-A-4-A

Lab Sample ID: 680-115692-4

Client ID: CV0511NN-CS-18

Operator ID: LIMS import

ALS Bottle#: 12 Worklist Smp#: 12

Injection Vol: 2.0 ul

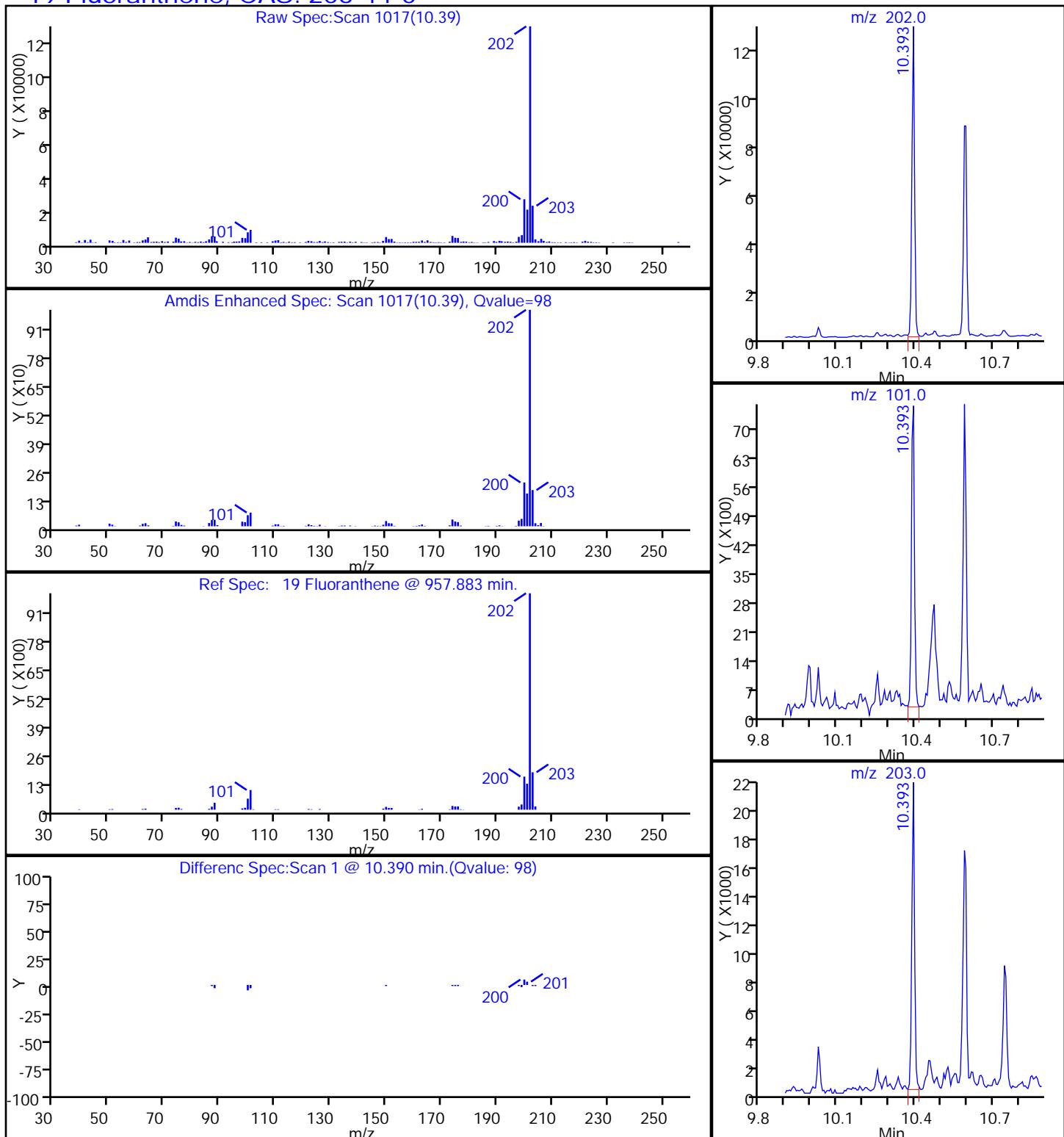
Dil. Factor: 1.0000

Method: 8270D\_LLPAH\_MSY

Limit Group: 8270D\_LL\_PAH

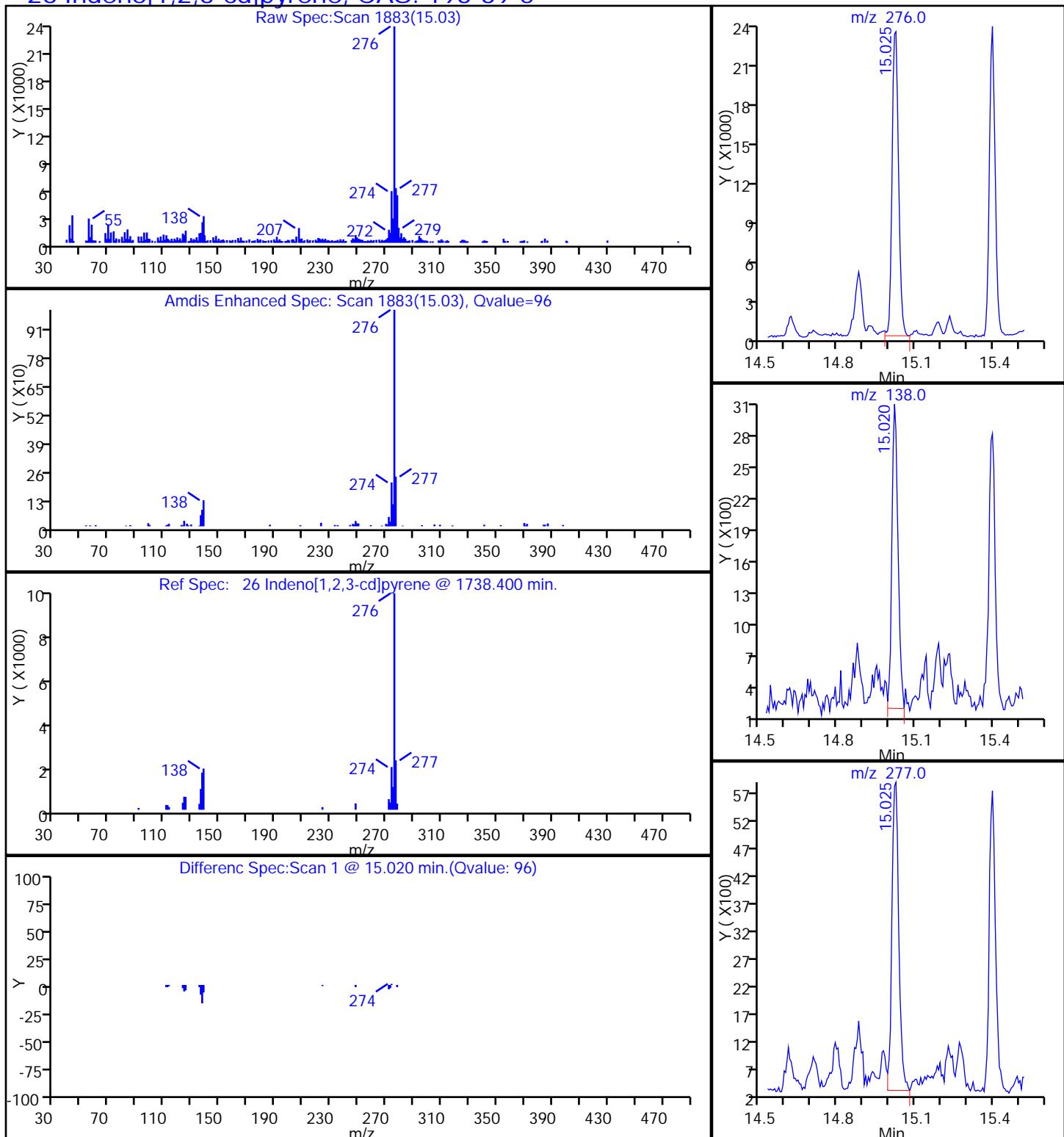
Column: Restek RXi-5Sil MS ( 0.25 mm)

Detector MS SCAN

**19 Fluoranthene, CAS: 206-44-0**

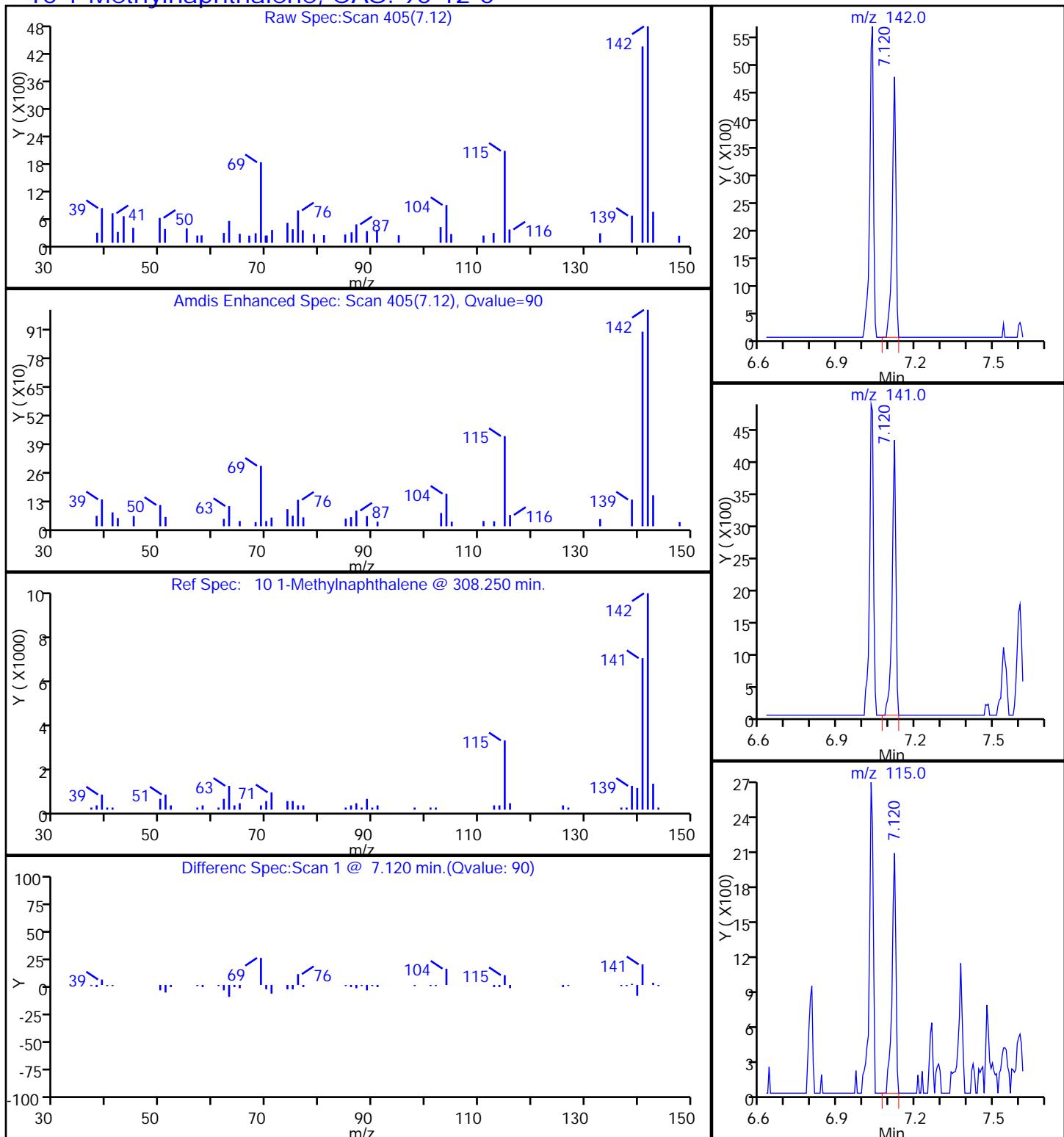
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 Injection Date: 18-Aug-2015 16:54:30 Instrument ID: CMSY  
 Lims ID: 680-115692-A-4-A Lab Sample ID: 680-115692-4  
 Client ID: CV0511NN-CS-18  
 Operator ID: LIMS import ALS Bottle#: 12 Worklist Smp#: 12  
 Injection Vol: 2.0 ul Dil. Factor: 1.0000  
 Method: 8270D\_LLPAH\_MSY Limit Group: 8270D\_LL\_PAH  
 Column: Restek RXi-5Sil MS ( 0.25 mm) Detector MS SCAN

### 26 Indeno[1,2,3-cd]pyrene, CAS: 193-39-5



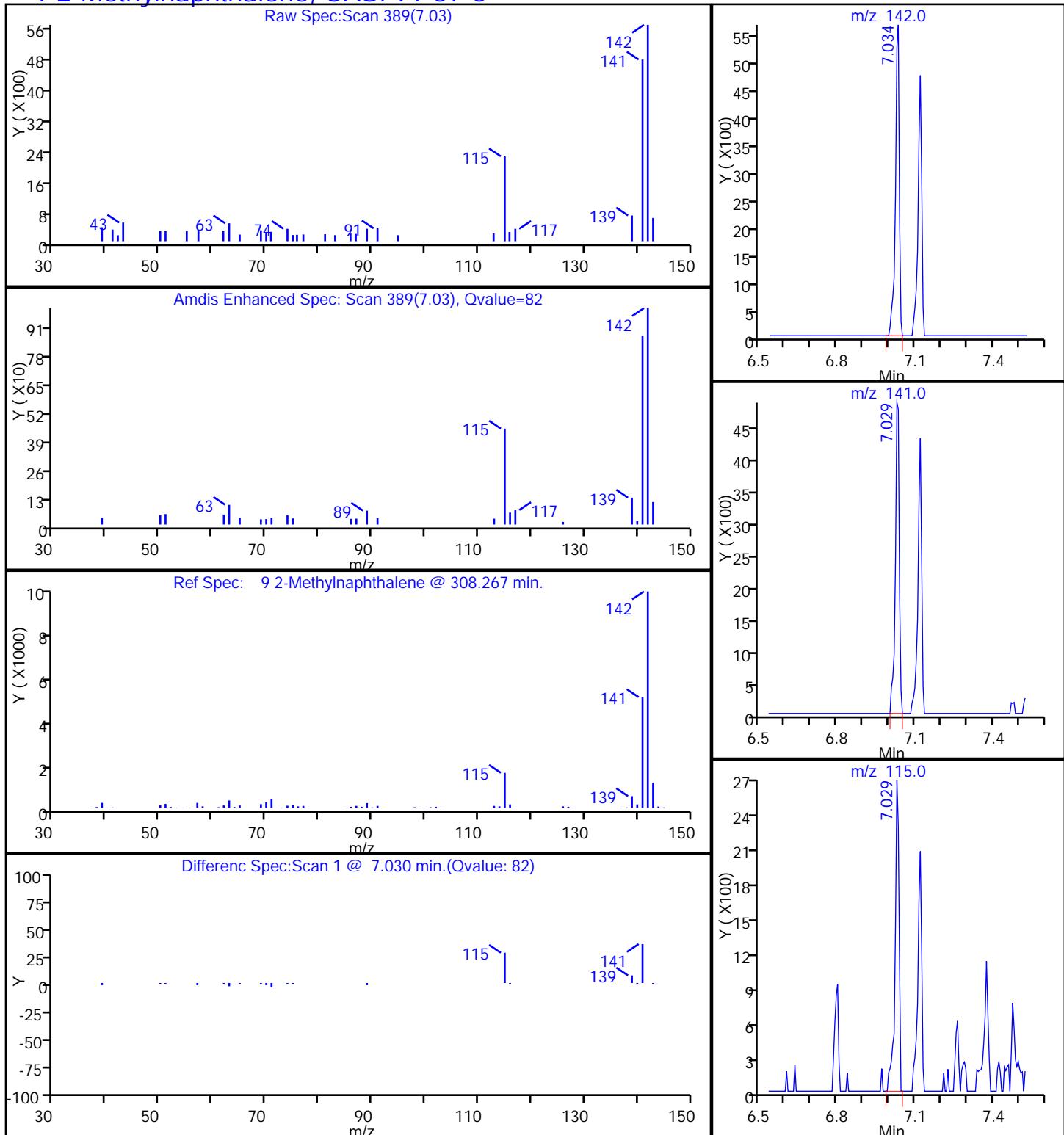
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 Injection Date: 18-Aug-2015 16:54:30 Instrument ID: CMSY  
 Lims ID: 680-115692-A-4-A Lab Sample ID: 680-115692-4  
 Client ID: CV0511NN-CS-18  
 Operator ID: LIMS import ALS Bottle#: 12 Worklist Smp#: 12  
 Injection Vol: 2.0 ul Dil. Factor: 1.0000  
 Method: 8270D\_LLPAH\_MSY Limit Group: 8270D\_LL\_PAH  
 Column: Restek RXi-5Sil MS ( 0.25 mm) Detector MS SCAN

### 10 1-Methylnaphthalene, CAS: 90-12-0



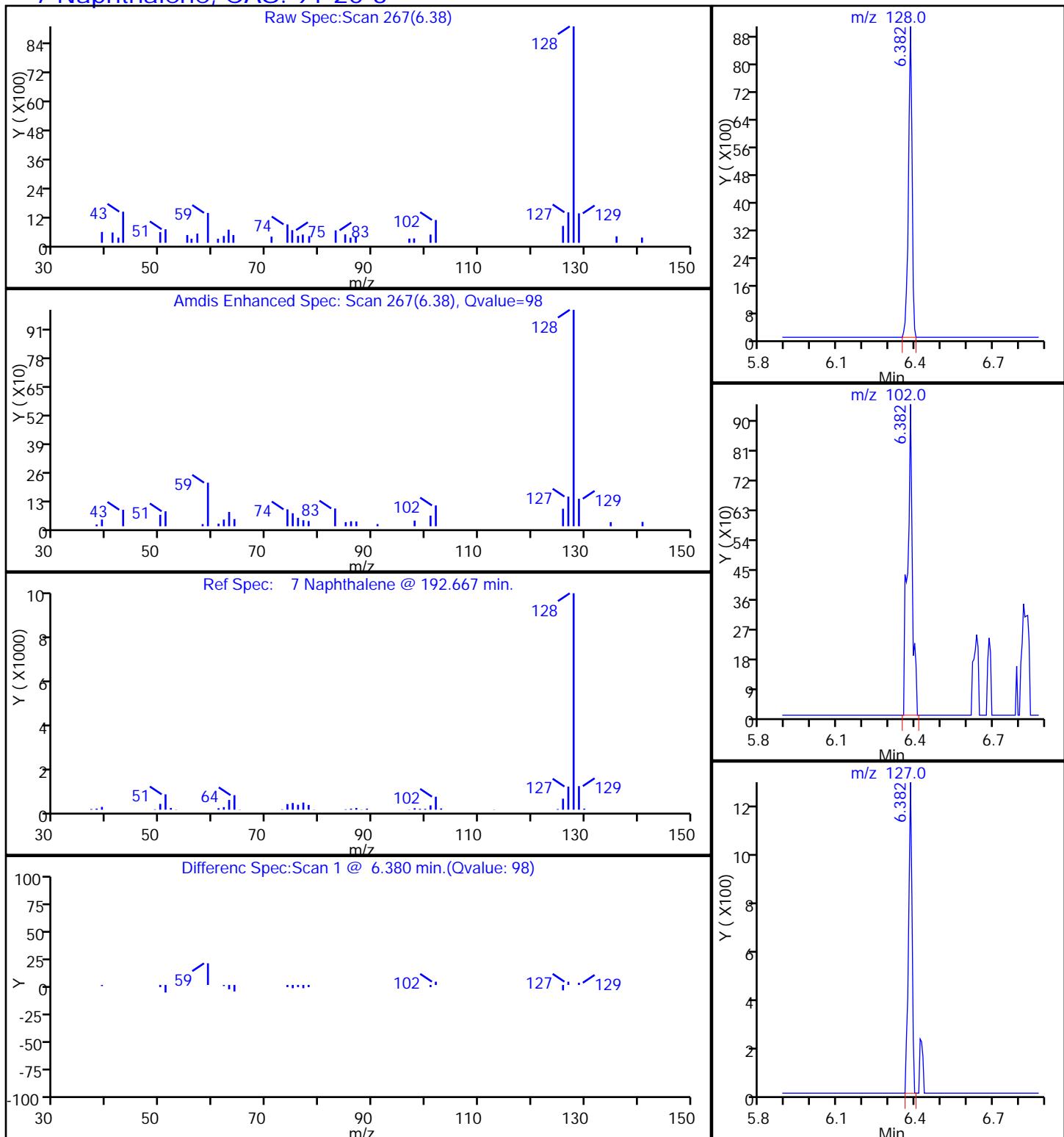
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 Lims ID: 680-115692-A-4-A Lab Sample ID: 680-115692-4  
 Client ID: CV0511NN-CS-18  
 Operator ID: LIMS import ALS Bottle#: 12 Worklist Smp#: 12  
 Injection Vol: 2.0 ul Dil. Factor: 1.0000  
 Method: 8270D\_LLPAH\_MSY Limit Group: 8270D\_LL\_PAH  
 Column: Restek RXi-5Sil MS ( 0.25 mm) Detector MS SCAN

### 9 2-Methylnaphthalene, CAS: 91-57-6



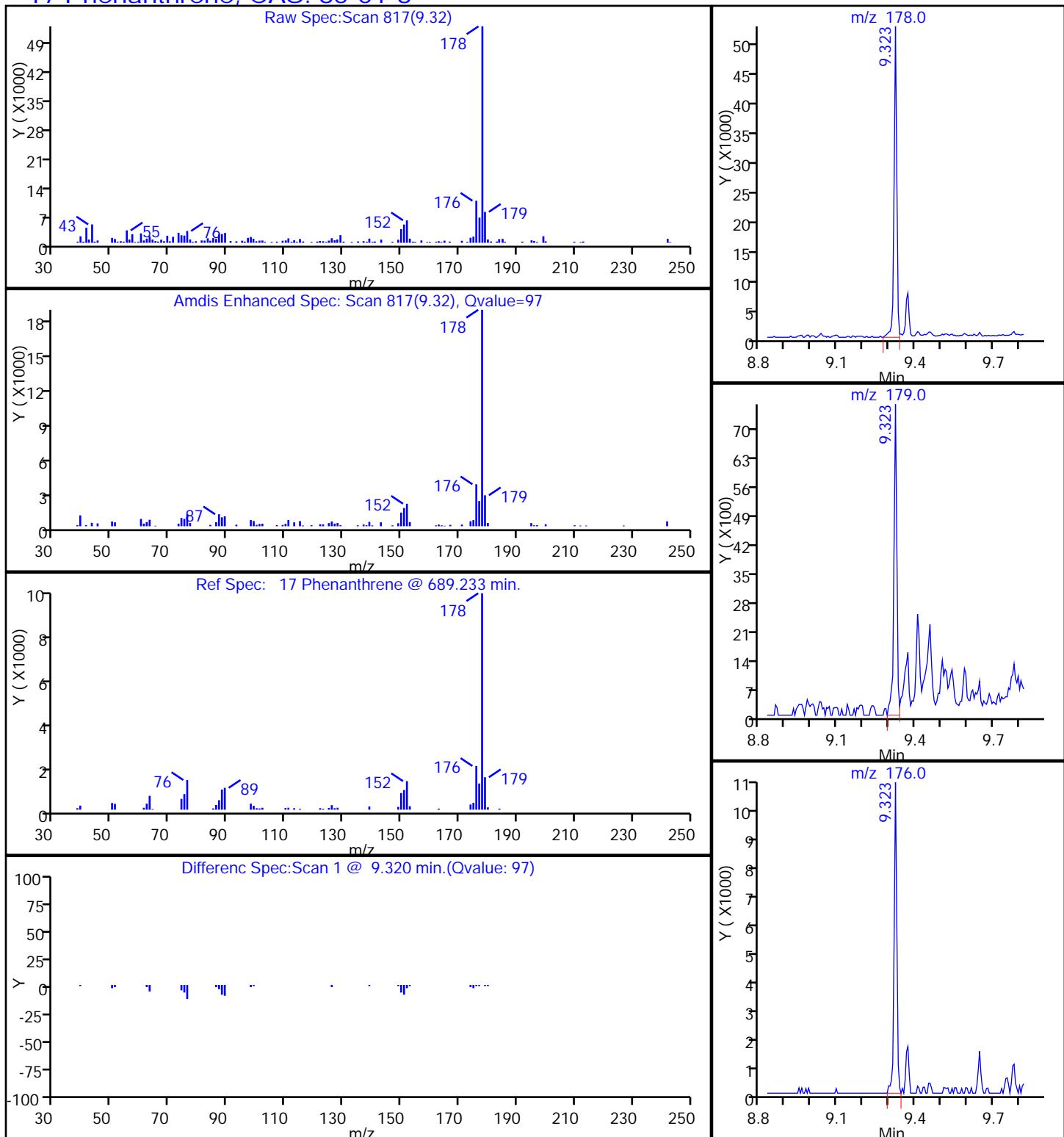
TestAmerica Savannah  
 Data File: \\ChromNA\\Savannah\\ChromData\\CMSY\\20150818-22358.b\\1YF18012.D  
 Injection Date: 18-Aug-2015 16:54:30 Instrument ID: CMSY  
 Lims ID: 680-115692-A-4-A Lab Sample ID: 680-115692-4  
 Client ID: CV0511NN-CS-18  
 Operator ID: LIMS import ALS Bottle#: 12 Worklist Smp#: 12  
 Injection Vol: 2.0 ul Dil. Factor: 1.0000  
 Method: 8270D\_LLPAH\_MSY Limit Group: 8270D\_LL\_PAH  
 Column: Restek RXi-5Sil MS ( 0.25 mm) Detector: MS SCAN

### 7 Naphthalene, CAS: 91-20-3



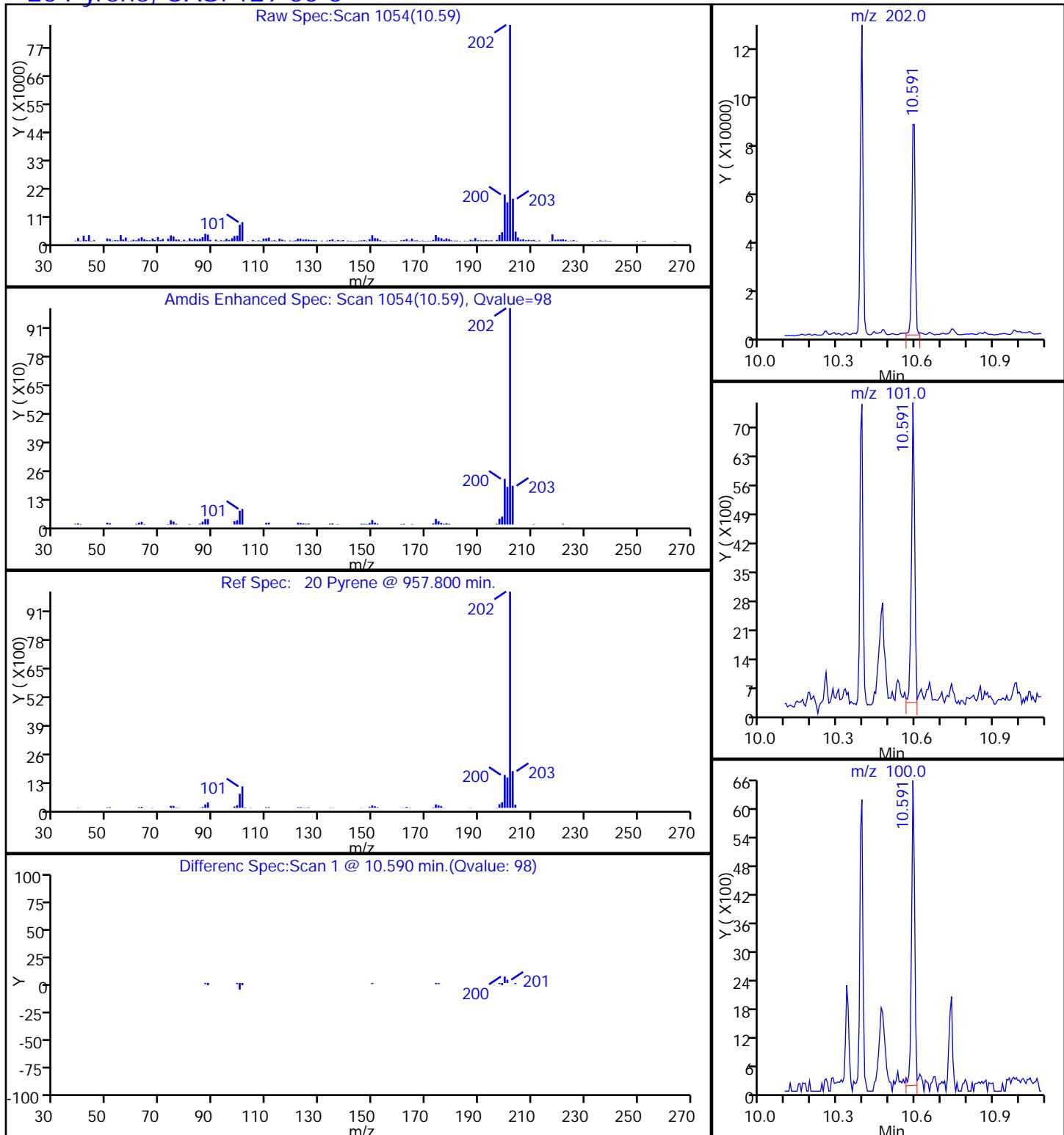
TestAmerica Savannah  
 Data File: \\ChromNA\\Savannah\\ChromData\\CMSY\\20150818-22358.b\\1YF18012.D  
 Injection Date: 18-Aug-2015 16:54:30 Instrument ID: CMSY  
 Lims ID: 680-115692-A-4-A Lab Sample ID: 680-115692-4  
 Client ID: CV0511NN-CS-18  
 Operator ID: LIMS import ALS Bottle#: 12 Worklist Smp#: 12  
 Injection Vol: 2.0 ul Dil. Factor: 1.0000  
 Method: 8270D\_LLPAH\_MSY Limit Group: 8270D\_LL\_PAH  
 Column: Restek RXi-5Sil MS ( 0.25 mm) Detector MS SCAN

### 17 Phenanthrene, CAS: 85-01-8



TestAmerica Savannah  
 Data File: \\ChromNA\\Savannah\\ChromData\\CMSY\\20150818-22358.b\\1YF18012.D  
 Injection Date: 18-Aug-2015 16:54:30 Instrument ID: CMSY  
 Lims ID: 680-115692-A-4-A Lab Sample ID: 680-115692-4  
 Client ID: CV0511NN-CS-18  
 Operator ID: LIMS import ALS Bottle#: 12 Worklist Smp#: 12  
 Injection Vol: 2.0 ul Dil. Factor: 1.0000  
 Method: 8270D\_LLPAH\_MSY Limit Group: 8270D\_LL\_PAH  
 Column: Restek RXi-5Sil MS ( 0.25 mm) Detector MS SCAN

## 20 Pyrene, CAS: 129-00-0



FORM I  
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Savannah	Job No.: 680-115692-1
SDG No.: 680-115692-01	
Client Sample ID: CV0511NN-CS-24	Lab Sample ID: 680-115692-5
Matrix: Solid	Lab File ID: 1YF18013.D
Analysis Method: 8270D_LL_PAH	Date Collected: 08/10/2015 14:15
Extract. Method: 3546	Date Extracted: 08/17/2015 10:44
Sample wt/vol: 30.01(g)	Date Analyzed: 08/18/2015 17:22
Con. Extract Vol.: 1(mL)	Dilution Factor: 1
Injection Volume: 2(uL)	Level: (low/med) Low
% Moisture: 17.8	GPC Cleanup: (Y/N) N
Analysis Batch No.: 396712	Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	8.2	U	8.2	4.0
208-96-8	Acenaphthylene	8.2	U	8.2	4.0
120-12-7	Anthracene	8.2	U	8.2	4.0
56-55-3	Benzo[a]anthracene	11		8.2	4.0
50-32-8	Benzo[a]pyrene	12		8.2	1.5
205-99-2	Benzo[b]fluoranthene	24		8.2	4.0
191-24-2	Benzo[g,h,i]perylene	6.9	J	8.2	4.0
207-08-9	Benzo[k]fluoranthene	7.0	J	8.2	2.4
218-01-9	Chrysene	19		8.2	4.0
53-70-3	Dibenz(a,h)anthracene	8.2	U	8.2	4.0
206-44-0	Fluoranthene	21		8.2	4.0
86-73-7	Fluorene	8.2	U	8.2	4.0
193-39-5	Indeno[1,2,3-cd]pyrene	4.8	J	8.2	4.0
90-12-0	1-Methylnaphthalene	8.2	U	8.2	3.8
91-57-6	2-Methylnaphthalene	8.2	U	8.2	4.0
91-20-3	Naphthalene	8.2	U	8.2	4.0
85-01-8	Phenanthrene	11		8.2	2.9
129-00-0	Pyrene	14		8.2	4.0

CAS NO.	SURROGATE	%REC	Q	LIMITS
84-15-1	o-Terphenyl	77		36-131

TestAmerica Savannah  
Target Compound Quantitation Report

Data File: \\ChromNA\Savannah\ChromData\CMSY\20150818-22358.b\1YF18013.D  
 Lims ID: 680-115692-A-5-A Lab Sample ID: 680-115692-5  
 Client ID: CV0511NN-CS-24  
 Sample Type: Client  
 Inject. Date: 18-Aug-2015 17:22:30 ALS Bottle#: 13 Worklist Smp#: 13  
 Injection Vol: 2.0 ul Dil. Factor: 1.0000  
 Sample Info: 680-115692-A-5-A  
 Misc. Info.: 680-0022358-013  
 Operator ID: LIMS import Instrument ID: CMSY  
 Method: \\ChromNA\Savannah\ChromData\CMSY\20150818-22358.b\8270D\_LLPAH\_MSY.m  
 Limit Group: 8270D\_LL\_PAH  
 Last Update: 19-Aug-2015 11:22:28 Calib Date: 12-Aug-2015 16:37:30  
 Integrator: RTE ID Type: Deconvolution ID  
 Quant Method: Internal Standard Quant By: Initial Calibration  
 Last ICAL File: \\ChromNA\Savannah\ChromData\CMSY\20150812-22174.b\1YF12008.D  
 Column 1 : Restek RXi-5Sil MS ( 0.25 mm) Det: MS SCAN  
 Process Host: XAWRK003

First Level Reviewer: millsj Date: 19-Aug-2015 10:45:34

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/ml	Flags
* 1 Naphthalene-d8	136	6.360	6.366	-0.006	99	49440	2.00	
* 2 Acenaphthene-d10	164	7.970	7.975	-0.005	97	26735	2.00	
* 3 Phenanthrene-d10	188	9.302	9.307	-0.005	97	59335	2.00	
* 4 Chrysene-d12	240	11.757	11.773	-0.016	98	85258	2.00	
* 5 Perylene-d12	264	13.533	13.538	-0.005	99	77430	2.00	
\$ 6 o-Terphenyl	230	9.650	9.655	-0.005	90	29810	1.53	
7 Naphthalene	128	6.382	6.387	-0.005	50	1787	0.0801	
10 1-Methylnaphthalene	142	7.120	7.120	0.000	1	743	0.0525	
17 Phenanthrene	178	9.323	9.329	-0.006	96	7765	0.2738	
18 Anthracene	178	9.372	9.371	0.001	34	1477	0.0607	
19 Fluoranthene	202	10.388	10.398	-0.010	98	17716	0.5200	
20 Pyrene	202	10.591	10.602	-0.011	97	12849	0.3448	
21 Benzo[a]anthracene	228	11.746	11.762	-0.016	93	10724	0.2614	
22 Chrysene	228	11.789	11.805	-0.016	99	17929	0.4571	
23 Benzo[b]fluoranthene	252	13.025	13.041	-0.016	97	22136	0.5849	
24 Benzo[k]fluoranthene	252	13.057	13.078	-0.021	31	6359	0.1722	
25 Benzo[a]pyrene	252	13.453	13.469	-0.016	98	10052	0.2856	
26 Indeno[1,2,3-cd]pyrene	276	15.020	15.025	-0.005	94	7415	0.1183	
28 Benzo[g,h,i]perylene	276	15.400	15.399	0.001	93	6991	0.1708	

**Reagents:**

SM-LLISTD\_00128 Amount Added: 10.00 Units: uL Run Reagent

Report Date: 19-Aug-2015 11:22:42

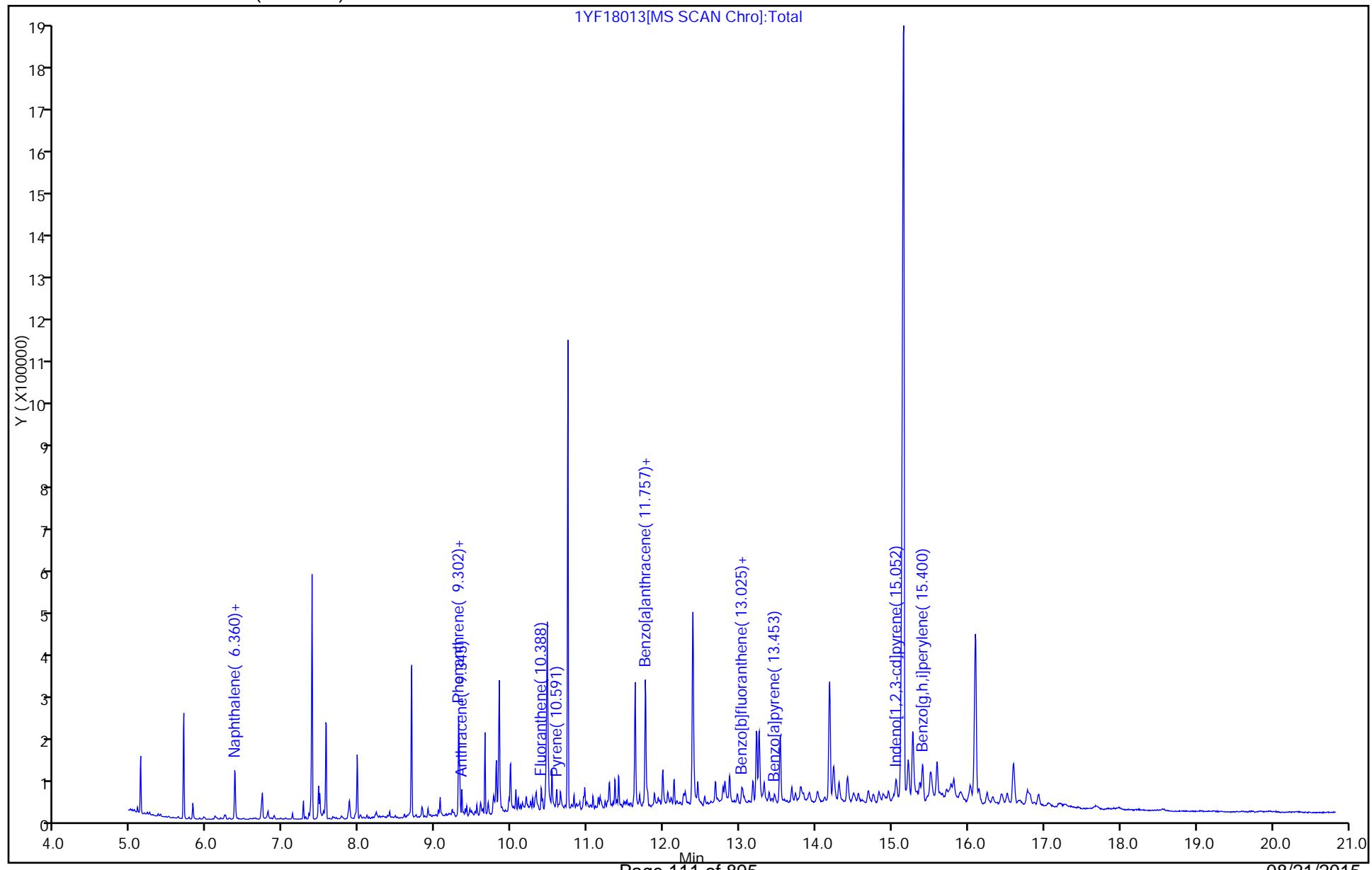
Chrom Revision: 2.2 23-Jul-2015 08:26:08

## TestAmerica Savannah

Data File: \\ChromNA\\Savannah\\ChromData\\CMSY\\20150818-22358.b\\1YF18013.D  
Injection Date: 18-Aug-2015 17:22:30 Instrument ID: CMSY  
Lims ID: 680-115692-A-5-A Lab Sample ID: 680-115692-5  
Client ID: CV0511NN-CS-24  
Injection Vol: 2.0 ul Dil. Factor: 1.0000  
Method: 8270D\_LLPAH\_MSY Limit Group: 8270D\_LL\_PAH  
Column: Restek RXi-5Sil MS ( 0.25 mm)

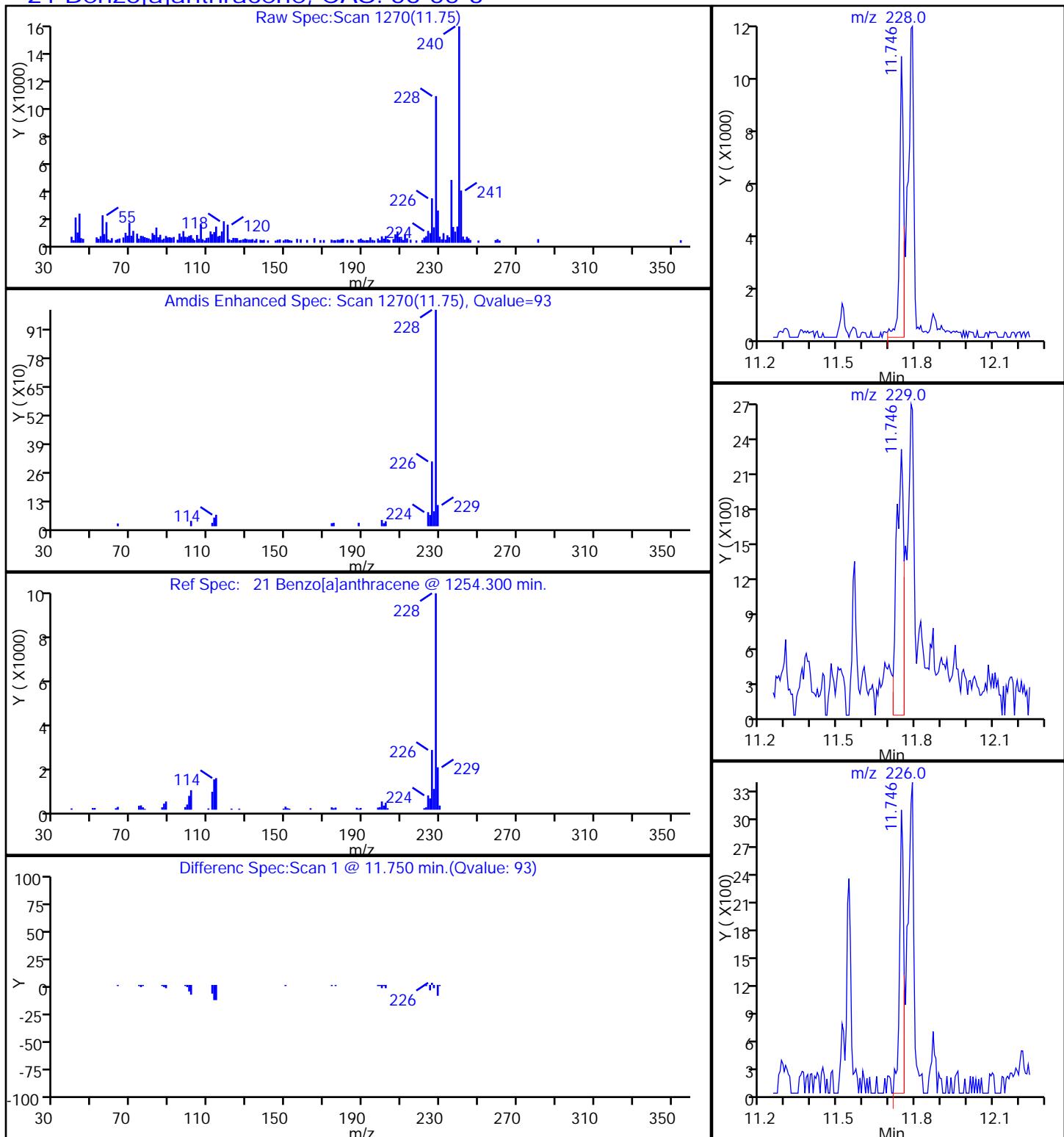
Operator ID: LIMS import  
Worklist Smp#: 13

ALS Bottle#: 13



TestAmerica Savannah  
 Data File: \\ChromNA\\Savannah\\ChromData\\CMSY\\20150818-22358.b\\1YF18013.D  
 Injection Date: 18-Aug-2015 17:22:30 Instrument ID: CMSY  
 Lims ID: 680-115692-A-5-A Lab Sample ID: 680-115692-5  
 Client ID: CV0511NN-CS-24  
 Operator ID: LIMS import ALS Bottle#: 13 Worklist Smp#: 13  
 Injection Vol: 2.0 ul Dil. Factor: 1.0000  
 Method: 8270D\_LLPAH\_MSY Limit Group: 8270D\_LL\_PAH  
 Column: Restek RXi-5Sil MS ( 0.25 mm) Detector MS SCAN

### 21 Benzo[a]anthracene, CAS: 56-55-3



TestAmerica Savannah

Data File: \\ChromNA\\Savannah\\ChromData\CMSY\\20150818-22358.b\\1YF18013.D

Injection Date: 18-Aug-2015 17:22:30

Instrument ID: CMSY

Lims ID: 680-115692-A-5-A

Lab Sample ID: 680-115692-5

Client ID: CV0511NN-CS-24

Operator ID: LIMS import

ALS Bottle#: 13 Worklist Smp#: 13

Injection Vol: 2.0 ul

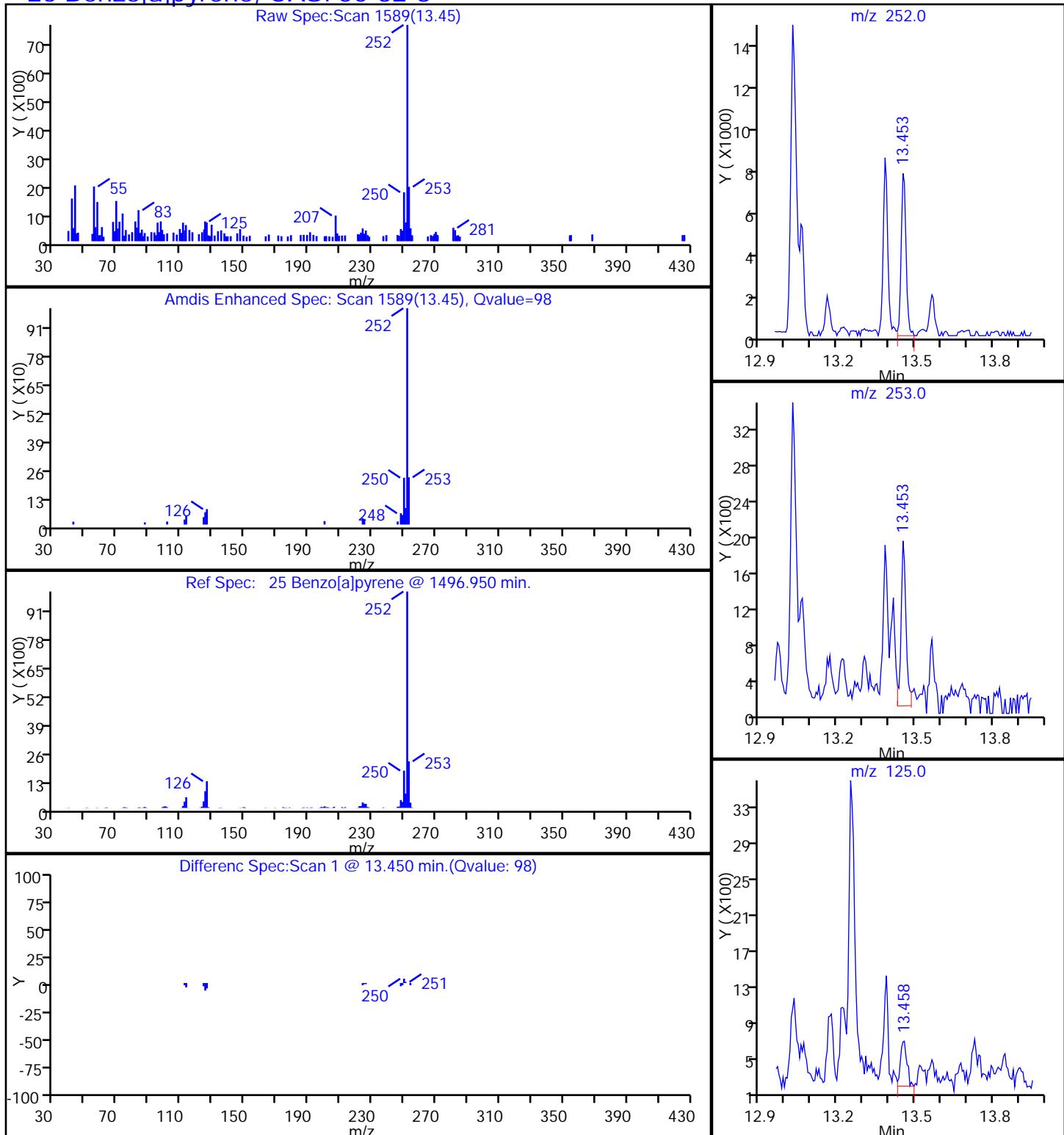
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Method: 8270D\_LLPAH\_MSY

Limit Group: 8270D\_LL\_PAH

Column: Restek RXi-5Sil MS ( 0.25 mm)

Detector: MS SCAN

**25 Benzo[a]pyrene, CAS: 50-32-8**

TestAmerica Savannah

Data File: \\ChromNA\\Savannah\\ChromData\CMSY\\20150818-22358.b\\1YF18013.D

Injection Date: 18-Aug-2015 17:22:30

Instrument ID: CMSY

Lims ID: 680-115692-A-5-A

Lab Sample ID: 680-115692-5

Client ID: CV0511NN-CS-24

Operator ID: LIMS import

ALS Bottle#: 13 Worklist Smp#: 13

Injection Vol: 2.0 ul

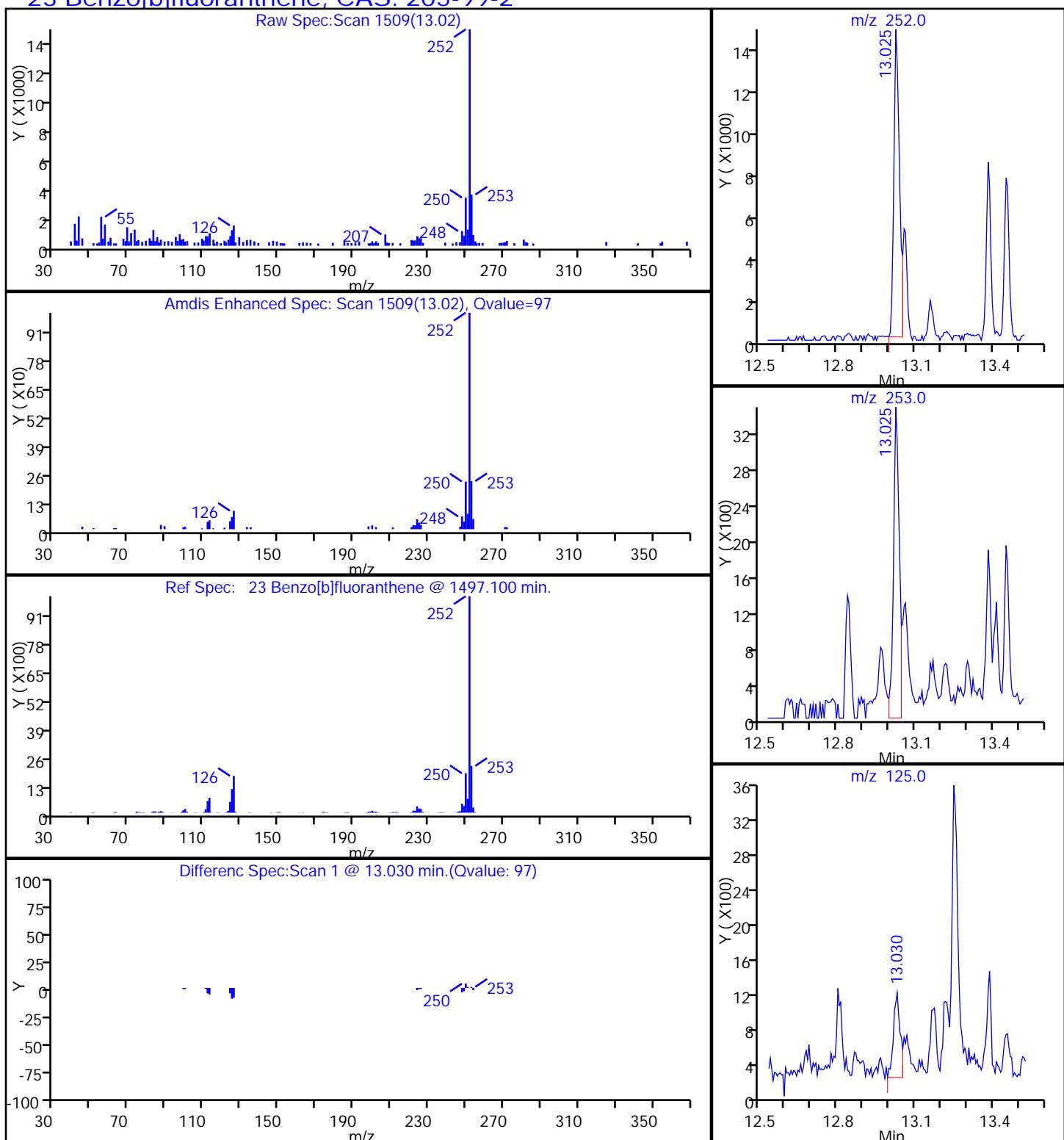
Dil. Factor: 1.0000

Method: 8270D\_LLPAH\_MSY

Limit Group: 8270D\_LL\_PAH

Column: Restek RXi-5Sil MS ( 0.25 mm)

Detector MS SCAN

**23 Benzo[b]fluoranthene, CAS: 205-99-2**

TestAmerica Savannah

Data File: \\ChromNA\\Savannah\\ChromData\CMSY\\20150818-22358.b\\1YF18013.D

Injection Date: 18-Aug-2015 17:22:30

Instrument ID: CMSY

Lims ID: 680-115692-A-5-A

Lab Sample ID: 680-115692-5

Client ID: CV0511NN-CS-24

Operator ID: LIMS import

ALS Bottle#: 13 Worklist Smp#: 13

Injection Vol: 2.0 ul

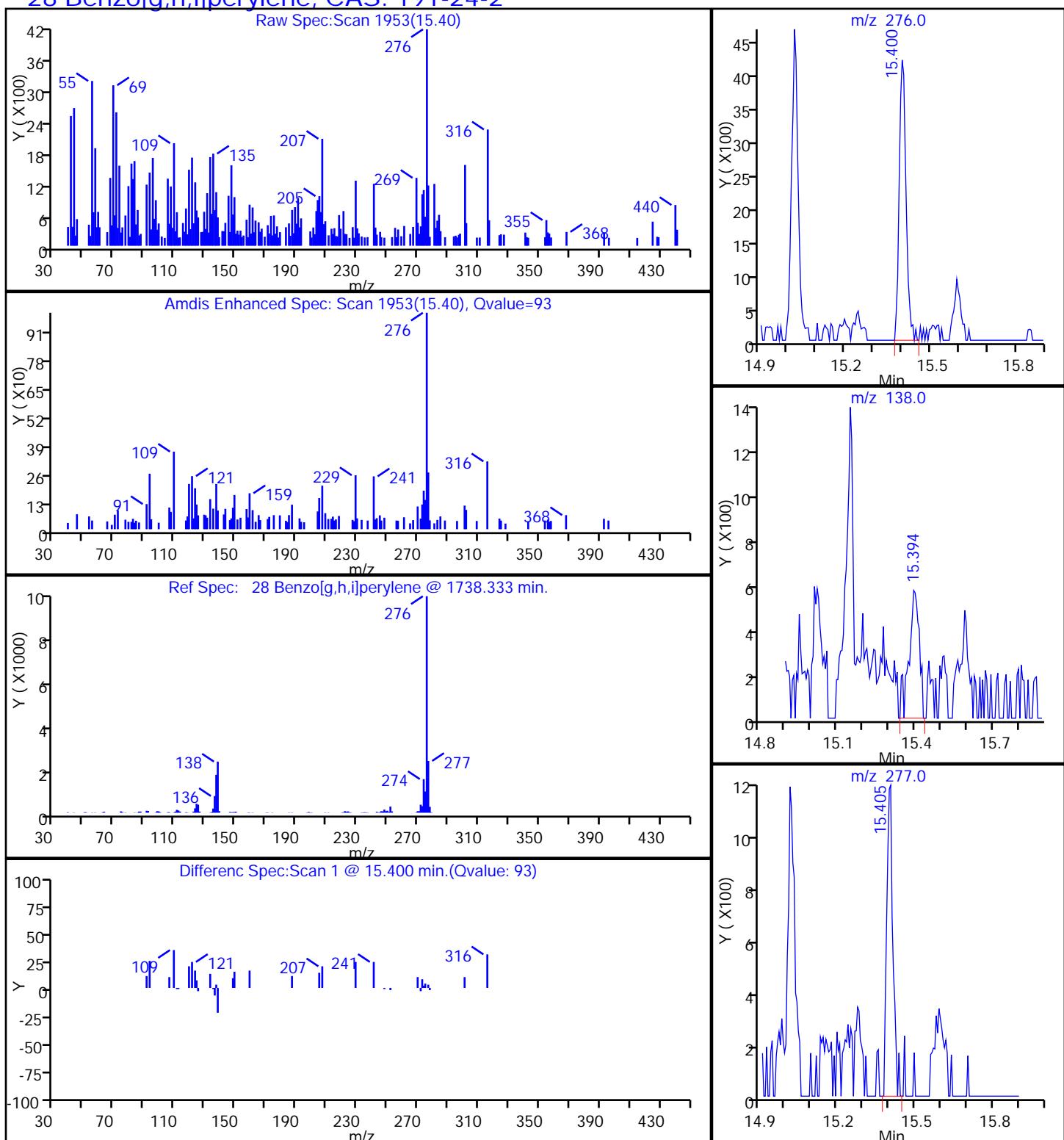
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Method: 8270D\_LLPAH\_MSY

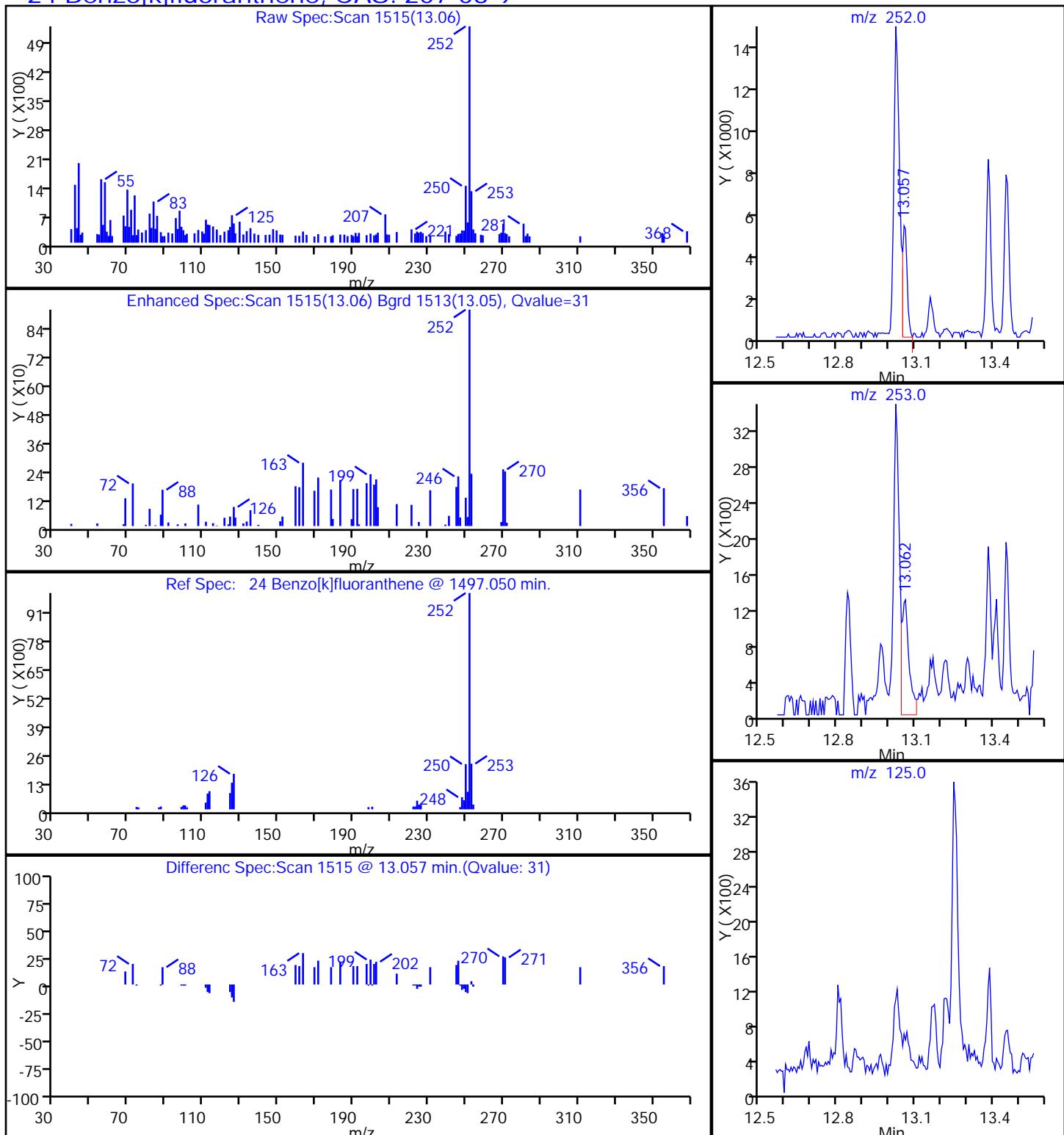
Limit Group: 8270D\_LL\_PAH

Column: Restek RXi-5Sil MS ( 0.25 mm)

Detector MS SCAN

**28 Benzo[g,h,i]perylene, CAS: 191-24-2**

TestAmerica Savannah  
 Data File: \\ChromNA\\Savannah\\ChromData\\CMSY\\20150818-22358.b\\1YF18013.D  
 Injection Date: 18-Aug-2015 17:22:30 Instrument ID: CMSY  
 Lims ID: 680-115692-A-5-A Lab Sample ID: 680-115692-5  
 Client ID: CV0511NN-CS-24  
 Operator ID: LIMS import ALS Bottle#: 13 Worklist Smp#: 13  
 Injection Vol: 2.0 ul Dil. Factor: 1.0000  
 Method: 8270D\_LLPAH\_MSY Limit Group: 8270D\_LL\_PAH  
 Column: Restek RXi-5Sil MS ( 0.25 mm) Detector MS SCAN

**24 Benzo[k]fluoranthene, CAS: 207-08-9**

TestAmerica Savannah

Data File: \\ChromNA\\Savannah\\ChromData\CMSY\\20150818-22358.b\\1YF18013.D

Injection Date: 18-Aug-2015 17:22:30

Instrument ID: CMSY

Lims ID: 680-115692-A-5-A

Lab Sample ID: 680-115692-5

Client ID: CV0511NN-CS-24

Operator ID: LIMS import

ALS Bottle#: 13 Worklist Smp#: 13

Injection Vol: 2.0 ul

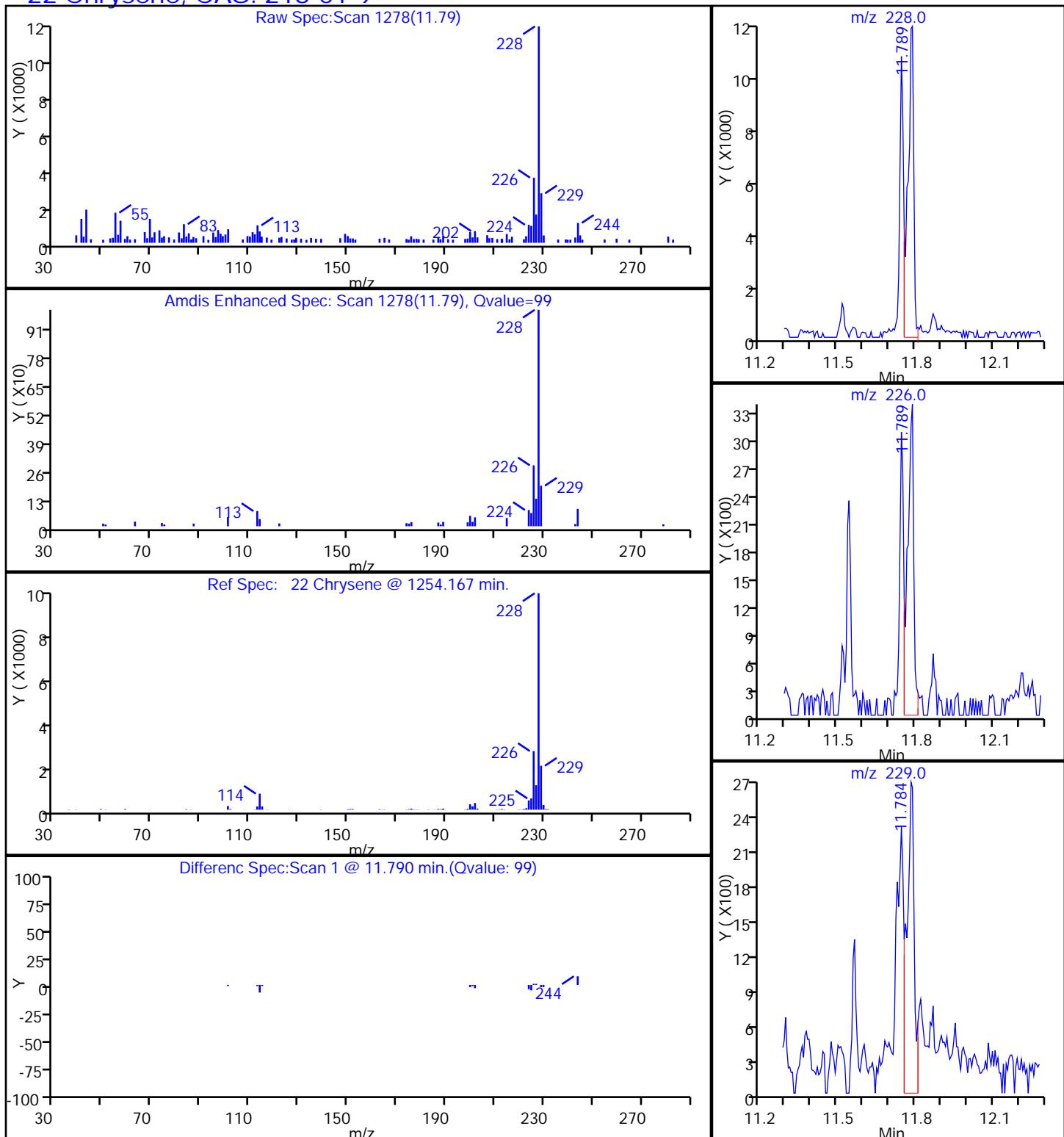
Dil. Factor: 1.0000

Method: 8270D\_LLPAH\_MSY

Limit Group: 8270D\_LL\_PAH

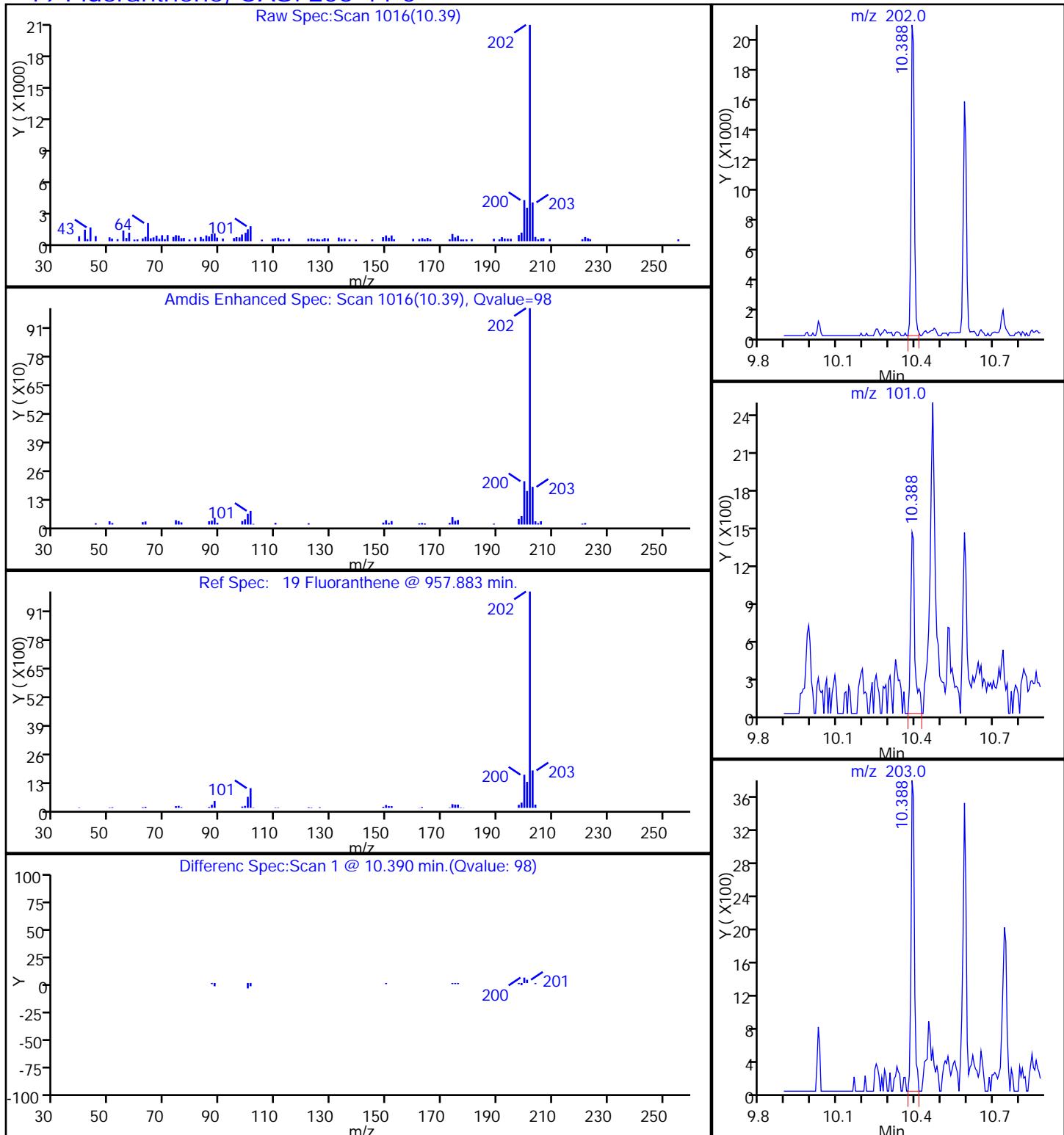
Column: Restek RXi-5Sil MS ( 0.25 mm)

Detector: MS SCAN

**22 Chrysene, CAS: 218-01-9**

Data File: \\ChromNA\Savannah\ChromData\CMSY\20150818-22358.b\1YF18013.D  
 Injection Date: 18-Aug-2015 17:22:30 Instrument ID: CMSY  
 Lims ID: 680-115692-A-5-A Lab Sample ID: 680-115692-5  
 Client ID: CV0511NN-CS-24  
 Operator ID: LIMS import ALS Bottle#: 13 Worklist Smp#: 13  
 Injection Vol: 2.0 ul Dil. Factor: 1.0000  
 Method: 8270D\_LLPAH\_MSY Limit Group: 8270D\_LL\_PAH  
 Column: Restek RXi-5Sil MS ( 0.25 mm) Detector: MS SCAN

## 19 Fluoranthene, CAS: 206-44-0



TestAmerica Savannah

Data File: \\ChromNA\\Savannah\\ChromData\\CMSY\\20150818-22358.b\\1YF18013.D

Injection Date: 18-Aug-2015 17:22:30

Instrument ID: CMSY

Lims ID: 680-115692-A-5-A

Lab Sample ID: 680-115692-5

Client ID: CV0511NN-CS-24

Operator ID: LIMS import

ALS Bottle#: 13 Worklist Smp#: 13

Injection Vol: 2.0 ul

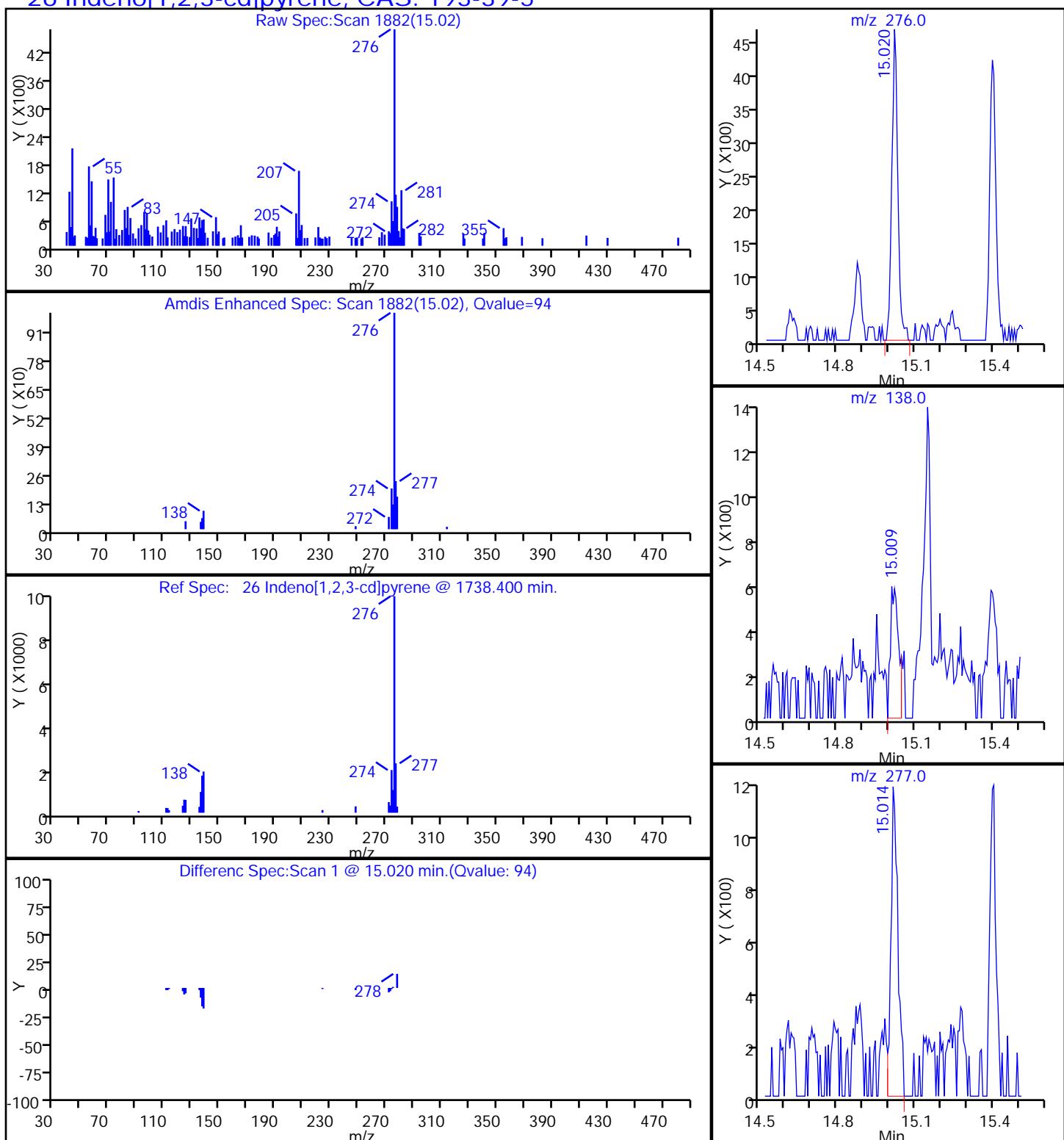
Dil. Factor: 1.0000

Method: 8270D\_LLPAH\_MSY

Limit Group: 8270D\_LL\_PAH

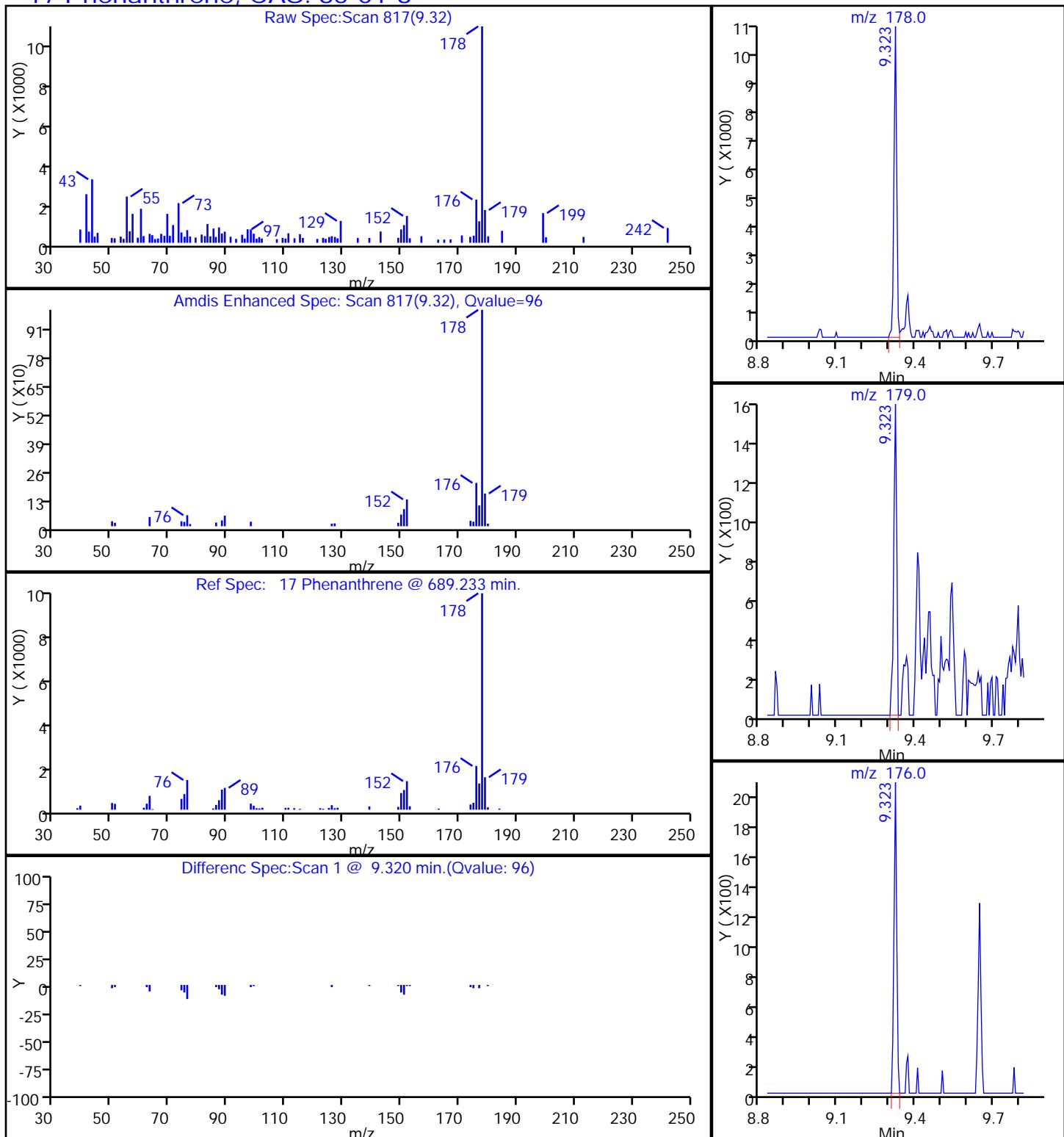
Column: Restek RXi-5Sil MS ( 0.25 mm)

Detector: MS SCAN

**26 Indeno[1,2,3-cd]pyrene, CAS: 193-39-5**

TestAmerica Savannah  
 Data File: \\ChromNA\\Savannah\\ChromData\\CMSY\\20150818-22358.b\\1YF18013.D  
 Injection Date: 18-Aug-2015 17:22:30 Instrument ID: CMSY  
 Lims ID: 680-115692-A-5-A Lab Sample ID: 680-115692-5  
 Client ID: CV0511NN-CS-24  
 Operator ID: LIMS import ALS Bottle#: 13 Worklist Smp#: 13  
 Injection Vol: 2.0 ul Dil. Factor: 1.0000  
 Method: 8270D\_LLPAH\_MSY Limit Group: 8270D\_LL\_PAH  
 Column: Restek RXi-5Sil MS ( 0.25 mm) Detector MS SCAN

### 17 Phenanthrene, CAS: 85-01-8



TestAmerica Savannah

Data File: \\ChromNA\\Savannah\\ChromData\\CMSY\\20150818-22358.b\\1YF18013.D

Injection Date: 18-Aug-2015 17:22:30

Instrument ID: CMSY

Lims ID: 680-115692-A-5-A

Lab Sample ID: 680-115692-5

Client ID: CV0511NN-CS-24

Operator ID: LIMS import

ALS Bottle#: 13 Worklist Smp#: 13

Injection Vol: 2.0 ul

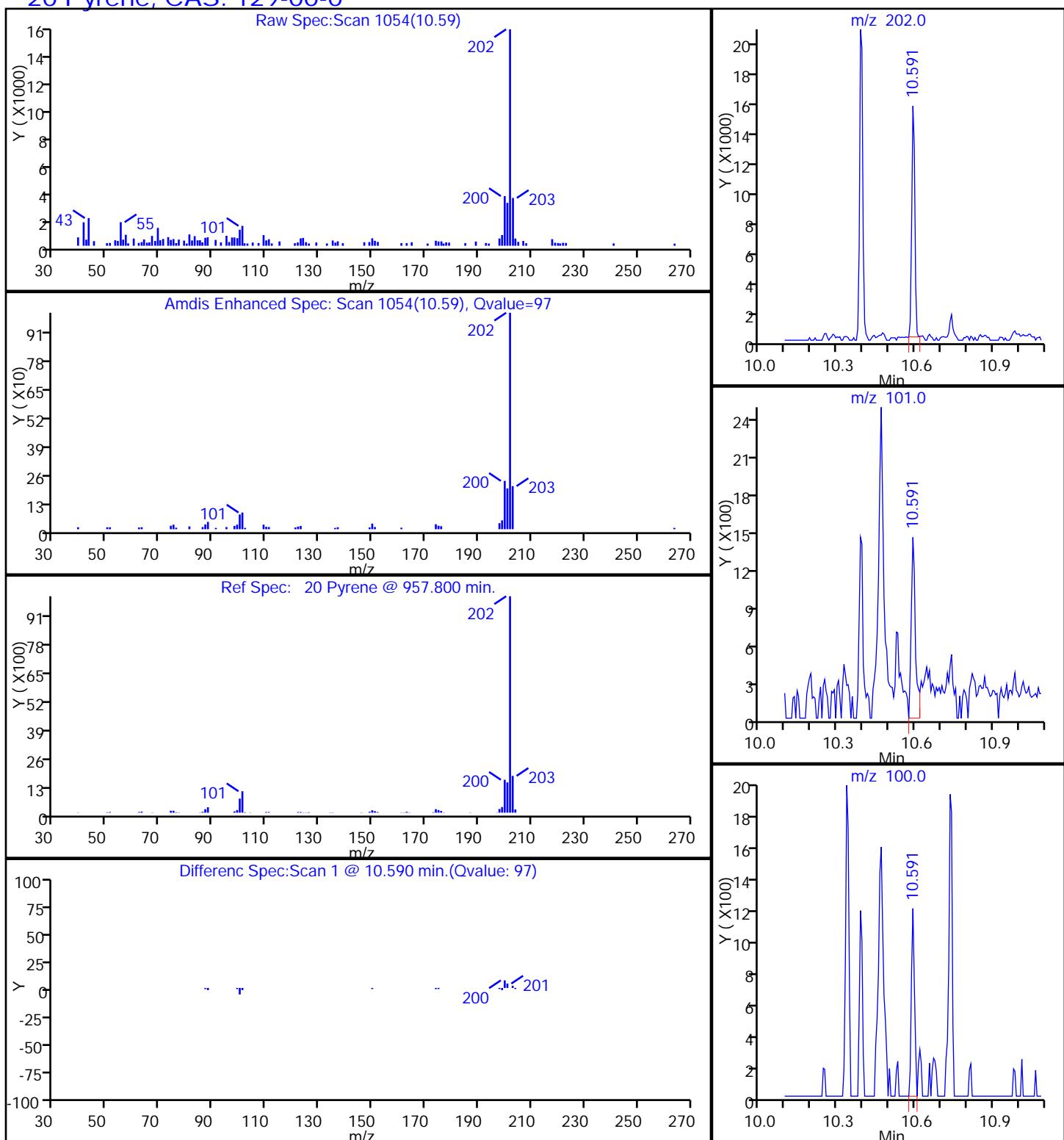
Dil. Factor: 1.0000

Method: 8270D\_LLPAH\_MSY

Limit Group: 8270D\_LL\_PAH

Column: Restek RXi-5Sil MS ( 0.25 mm)

Detector: MS SCAN

**20 Pyrene, CAS: 129-00-0**

FORM I  
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Savannah	Job No.: 680-115692-1
SDG No.: 680-115692-01	
Client Sample ID: CV0511TT-CS-6	Lab Sample ID: 680-115692-6
Matrix: Solid	Lab File ID: 1YF18014.D
Analysis Method: 8270D_LL_PAH	Date Collected: 08/10/2015 14:45
Extract. Method: 3546	Date Extracted: 08/17/2015 10:44
Sample wt/vol: 30.11(g)	Date Analyzed: 08/18/2015 17:51
Con. Extract Vol.: 1(mL)	Dilution Factor: 10
Injection Volume: 2(uL)	Level: (low/med) Low
% Moisture: 11.3	GPC Cleanup: (Y/N) N
Analysis Batch No.: 396712	Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	75	U	75	37
208-96-8	Acenaphthylene	75	U	75	37
120-12-7	Anthracene	75	U	75	37
56-55-3	Benzo[a]anthracene	100		75	37
50-32-8	Benzo[a]pyrene	99		75	13
205-99-2	Benzo[b]fluoranthene	150		75	37
191-24-2	Benzo[g,h,i]perylene	57	J	75	37
207-08-9	Benzo[k]fluoranthene	64	J	75	22
218-01-9	Chrysene	100		75	37
53-70-3	Dibenz(a,h)anthracene	75	U	75	37
206-44-0	Fluoranthene	170		75	37
86-73-7	Fluorene	75	U	75	37
193-39-5	Indeno[1,2,3-cd]pyrene	38	J	75	37
90-12-0	1-Methylnaphthalene	75	U	75	35
91-57-6	2-Methylnaphthalene	75	U	75	37
91-20-3	Naphthalene	75	U	75	37
85-01-8	Phenanthrene	77		75	27
129-00-0	Pyrene	130		75	37

CAS NO.	SURROGATE	%REC	Q	LIMITS
84-15-1	o-Terphenyl	0	D	36-131

TestAmerica Savannah  
Target Compound Quantitation Report

Data File: \\ChromNA\Savannah\ChromData\CMSY\20150818-22358.b\1YF18014.D  
 Lims ID: 680-115692-A-6-A Lab Sample ID: 680-115692-6  
 Client ID: CV0511TT-CS-6  
 Sample Type: Client  
 Inject. Date: 18-Aug-2015 17:51:30 ALS Bottle#: 14 Worklist Smp#: 14  
 Injection Vol: 2.0 ul Dil. Factor: 10.0000  
 Sample Info: 680-115692-A-6-A  
 Misc. Info.: 680-0022358-014  
 Operator ID: LIMS import Instrument ID: CMSY  
 Method: \\ChromNA\Savannah\ChromData\CMSY\20150818-22358.b\8270D\_LLPAH\_MSY.m  
 Limit Group: 8270D\_LL\_PAH  
 Last Update: 19-Aug-2015 11:22:28 Calib Date: 12-Aug-2015 16:37:30  
 Integrator: RTE ID Type: Deconvolution ID  
 Quant Method: Internal Standard Quant By: Initial Calibration  
 Last ICAL File: \\ChromNA\Savannah\ChromData\CMSY\20150812-22174.b\1YF12008.D  
 Column 1 : Restek RXi-5Sil MS ( 0.25 mm) Det: MS SCAN  
 Process Host: XAWRK003

First Level Reviewer: millsj Date: 19-Aug-2015 10:46:50

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/ml	Flags
* 1 Naphthalene-d8	136	6.366	6.366	0.000	99	50110	2.00	
* 2 Acenaphthene-d10	164	7.976	7.975	0.001	96	27536	2.00	
* 3 Phenanthrene-d10	188	9.302	9.307	-0.005	97	60498	2.00	
* 4 Chrysene-d12	240	11.757	11.773	-0.016	98	87836	2.00	
* 5 Perylene-d12	264	13.527	13.538	-0.011	99	82089	2.00	
9 2-Methylnaphthalene	142	7.034	7.034	0.000	29	1063	0.0658	
10 1-Methylnaphthalene	142	7.120	7.120	0.000	1	889	0.0619	
17 Phenanthrene	178	9.323	9.329	-0.006	96	5954	0.2059	
19 Fluoranthene	202	10.388	10.398	-0.010	98	15450	0.4448	
20 Pyrene	202	10.591	10.602	-0.011	98	13801	0.3595	
21 Benzo[a]anthracene	228	11.746	11.762	-0.016	96	11348	0.2685	
22 Chrysene	228	11.784	11.805	-0.021	99	11321	0.2802	
23 Benzo[b]fluoranthene	252	13.025	13.041	-0.016	96	16232	0.4045	
24 Benzo[k]fluoranthene	252	13.057	13.078	-0.021	96	6696	0.1710	
25 Benzo[a]pyrene	252	13.453	13.469	-0.016	98	9865	0.2644	
26 Indeno[1,2,3-cd]pyrene	276	15.014	15.025	-0.011	96	6595	0.1021	
28 Benzo[g,h,i]perylene	276	15.389	15.399	-0.010	94	6652	0.1533	

**Reagents:**

SM-LLISTD\_00128 Amount Added: 10.00 Units: uL Run Reagent

Report Date: 19-Aug-2015 11:22:43

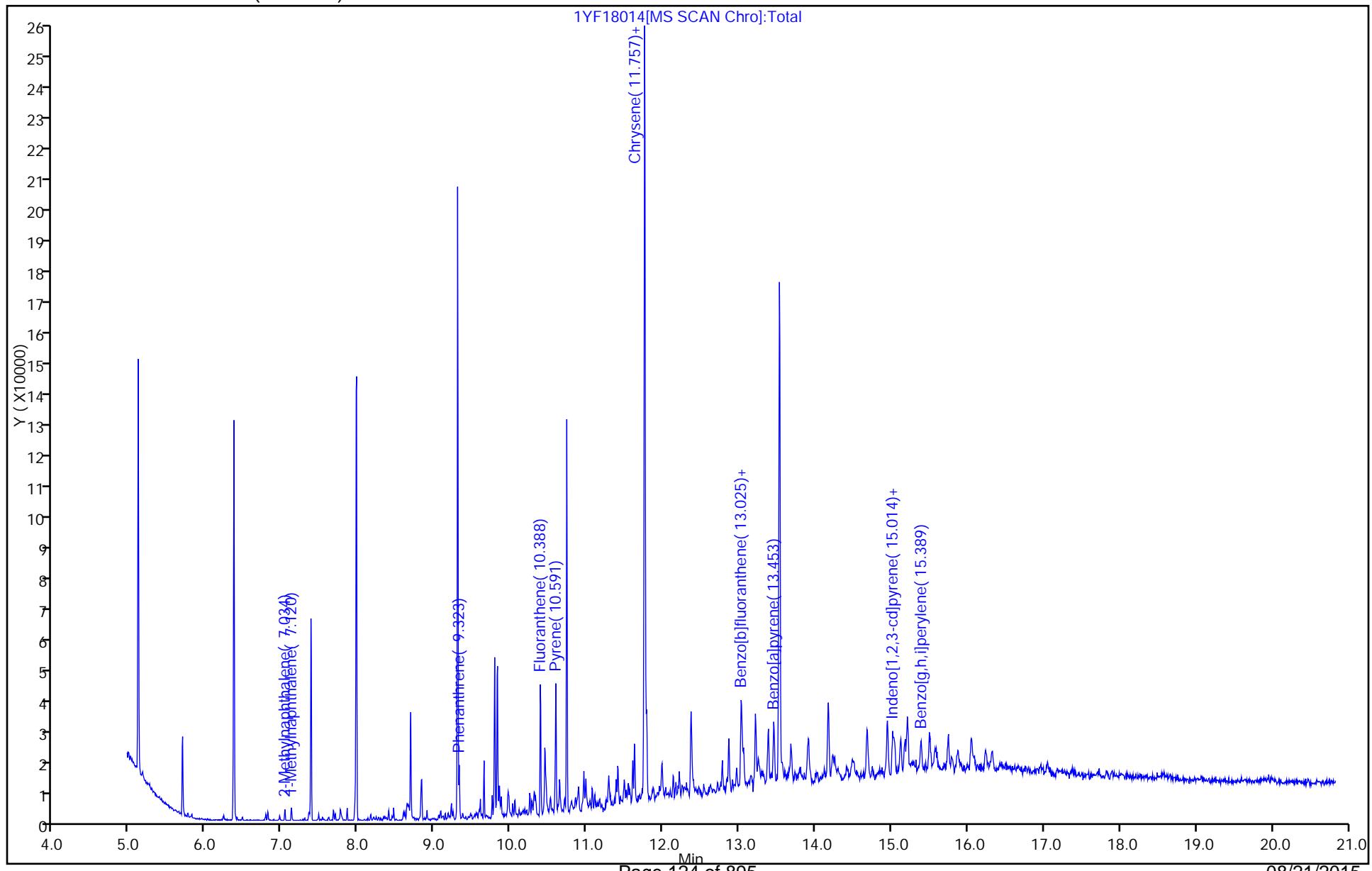
Chrom Revision: 2.2 23-Jul-2015 08:26:08

## TestAmerica Savannah

Data File: \\ChromNA\\Savannah\\ChromData\\CMSY\\20150818-22358.b\\1YF18014.D  
Injection Date: 18-Aug-2015 17:51:30 Instrument ID: CMSY  
Lims ID: 680-115692-A-6-A Lab Sample ID: 680-115692-6  
Client ID: CV0511TT-CS-6  
Injection Vol: 2.0 ul Dil. Factor: 10.0000  
Method: 8270D\_LLPAH\_MSY Limit Group: 8270D\_LL\_PAH  
Column: Restek RXi-5Sil MS ( 0.25 mm)

Operator ID: LIMS import  
Worklist Smp#: 14

ALS Bottle#: 14



TestAmerica Savannah

Data File: \\ChromNA\\Savannah\\ChromData\CMSY\\20150818-22358.b\\1YF18014.D

Injection Date: 18-Aug-2015 17:51:30

Instrument ID: CMSY

Lims ID: 680-115692-A-6-A

Lab Sample ID: 680-115692-6

Client ID: CV0511TT-CS-6

Operator ID: LIMS import

ALS Bottle#: 14 Worklist Smp#: 14

Injection Vol: 2.0 ul

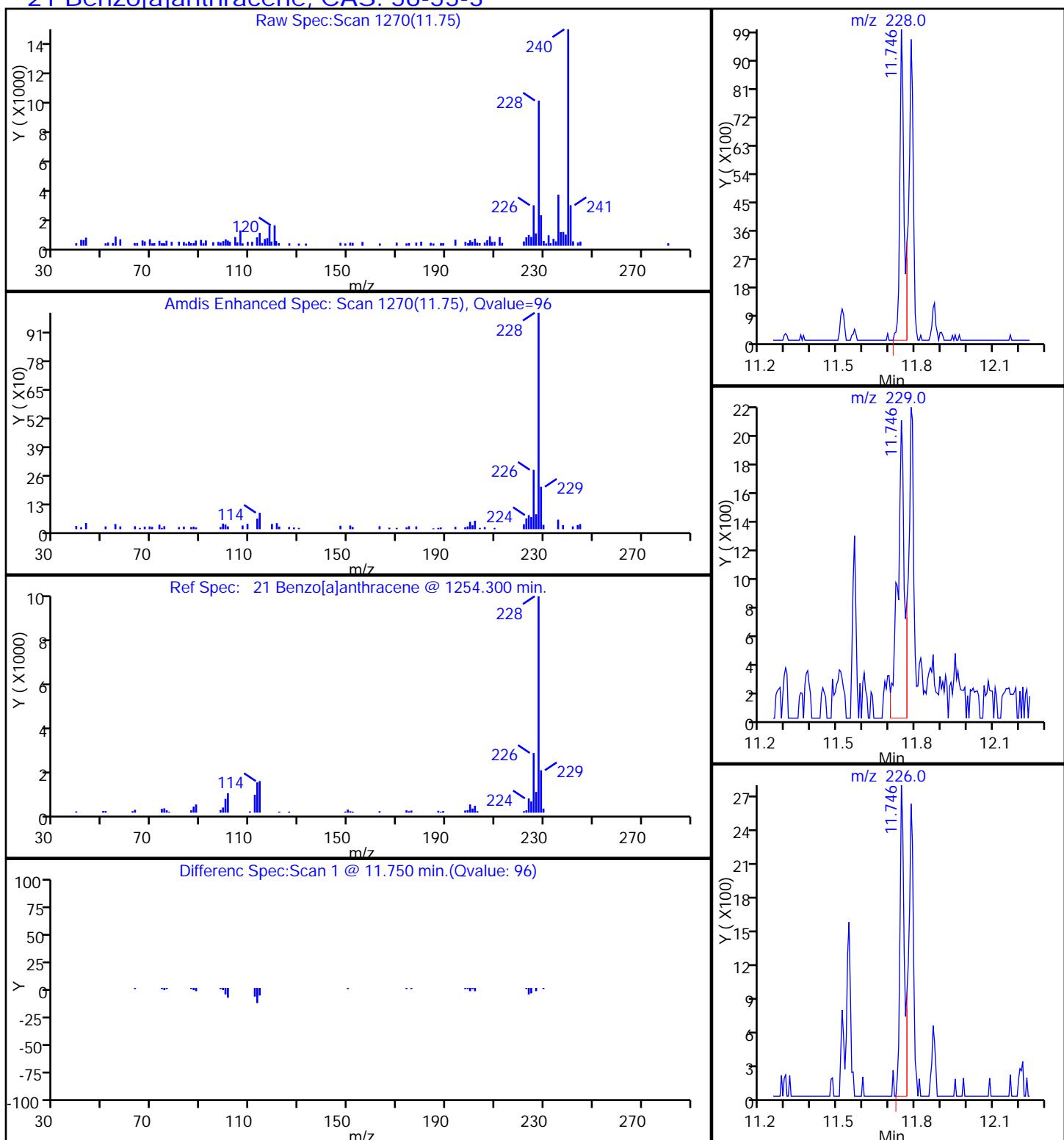
Dil. Factor: 10.0000

Method: 8270D\_LLPAH\_MSY

Limit Group: 8270D\_LL\_PAH

Column: Restek RXi-5Sil MS ( 0.25 mm)

Detector MS SCAN

**21 Benzo[a]anthracene, CAS: 56-55-3**

TestAmerica Savannah

Data File: \\ChromNA\\Savannah\\ChromData\CMSY\\20150818-22358.b\\1YF18014.D

Injection Date: 18-Aug-2015 17:51:30

Instrument ID: CMSY

Lims ID: 680-115692-A-6-A

Lab Sample ID: 680-115692-6

Client ID: CV0511TT-CS-6

Operator ID: LIMS import

ALS Bottle#: 14 Worklist Smp#: 14

Injection Vol: 2.0 ul

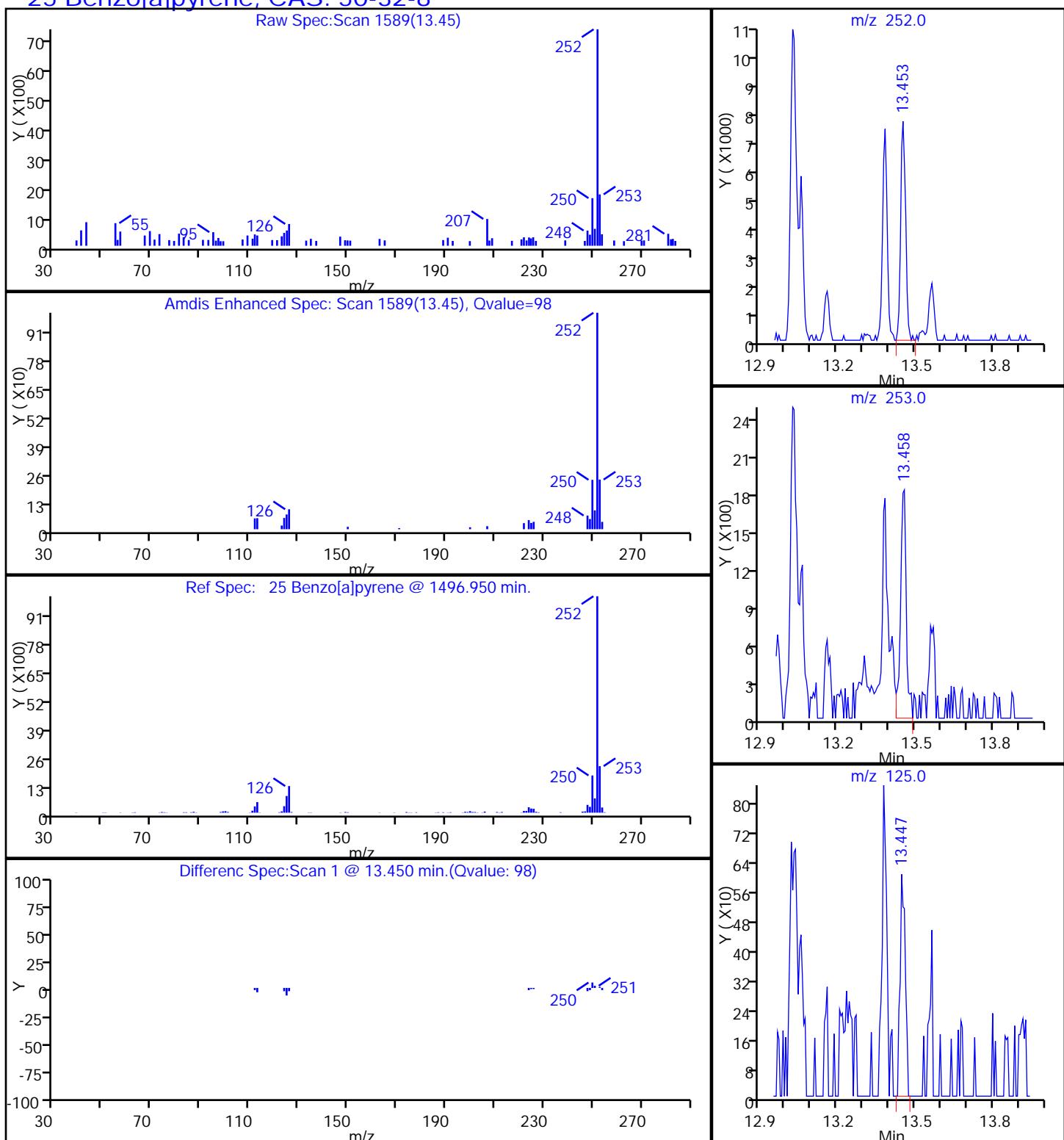
Dil. Factor: 10.0000

Method: 8270D\_LLPAH\_MSY

Limit Group: 8270D\_LL\_PAH

Column: Restek RXi-5Sil MS ( 0.25 mm)

Detector: MS SCAN

**25 Benzo[a]pyrene, CAS: 50-32-8**

TestAmerica Savannah

Data File: \\ChromNA\\Savannah\\ChromData\CMSY\\20150818-22358.b\\1YF18014.D

Injection Date: 18-Aug-2015 17:51:30

Instrument ID: CMSY

Lims ID: 680-115692-A-6-A

Lab Sample ID: 680-115692-6

Client ID: CV0511TT-CS-6

Operator ID: LIMS import

ALS Bottle#: 14 Worklist Smp#: 14

Injection Vol: 2.0 ul

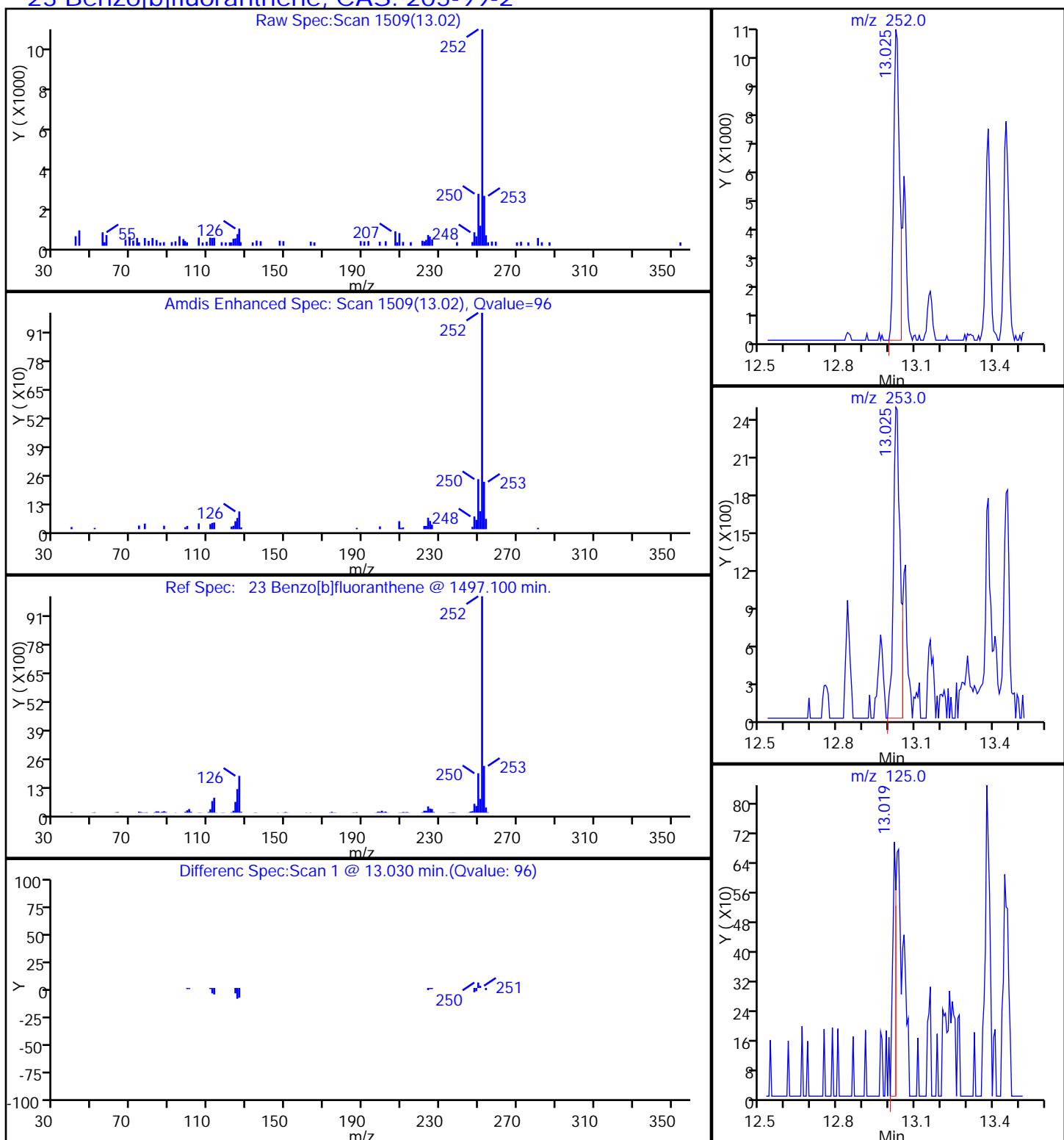
Dil. Factor: 10.0000

Method: 8270D\_LLPAH\_MSY

Limit Group: 8270D\_LL\_PAH

Column: Restek RXi-5Sil MS ( 0.25 mm)

Detector MS SCAN

**23 Benzo[b]fluoranthene, CAS: 205-99-2**

TestAmerica Savannah

Data File: \\ChromNA\\Savannah\\ChromData\CMSY\\20150818-22358.b\\1YF18014.D

Injection Date: 18-Aug-2015 17:51:30

Instrument ID: CMSY

Lims ID: 680-115692-A-6-A

Lab Sample ID: 680-115692-6

Client ID: CV0511TT-CS-6

Operator ID: LIMS import

ALS Bottle#: 14 Worklist Smp#: 14

Injection Vol: 2.0 ul

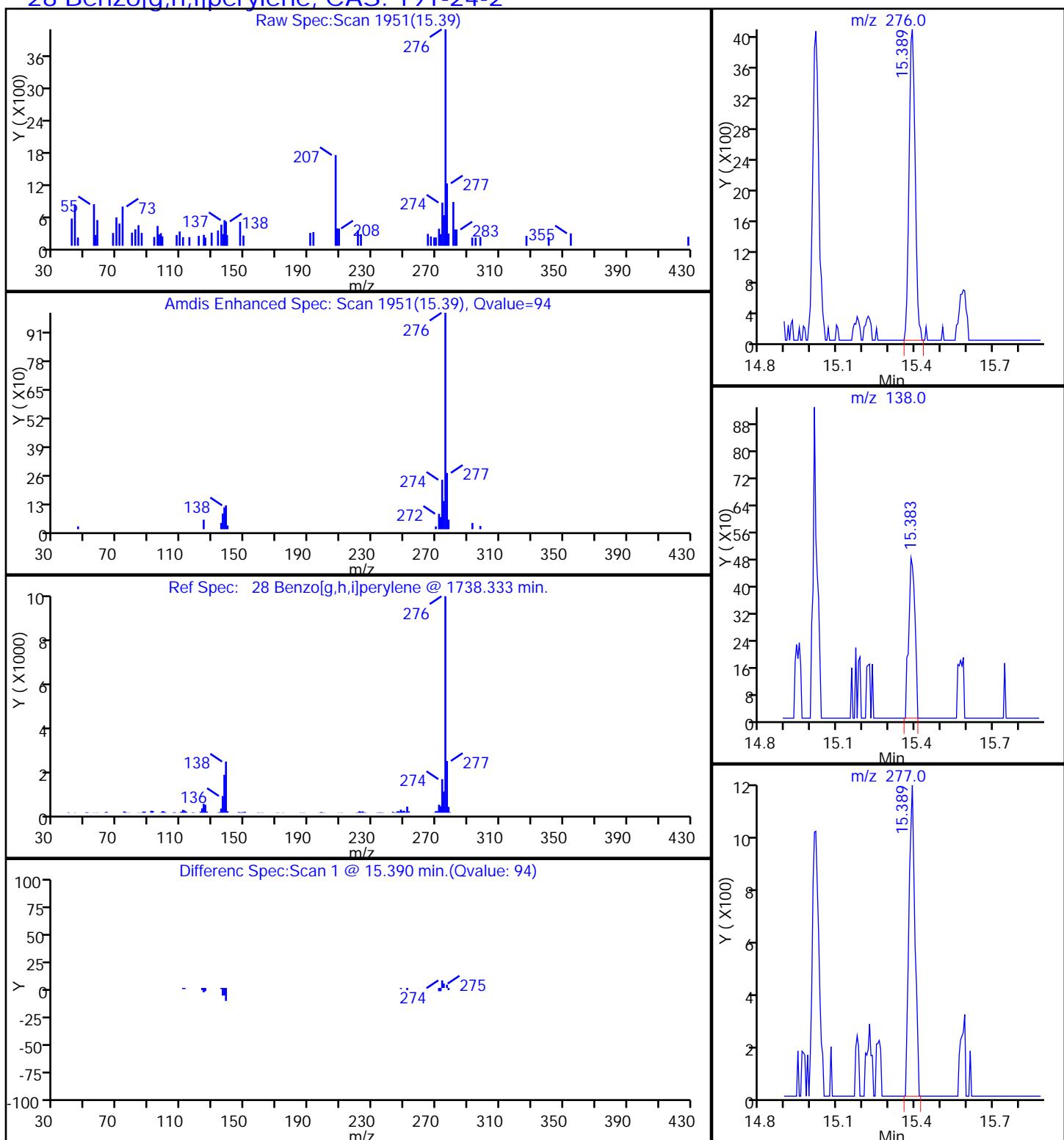
Dil. Factor: 10.0000

Method: 8270D\_LLPAH\_MSY

Limit Group: 8270D\_LL\_PAH

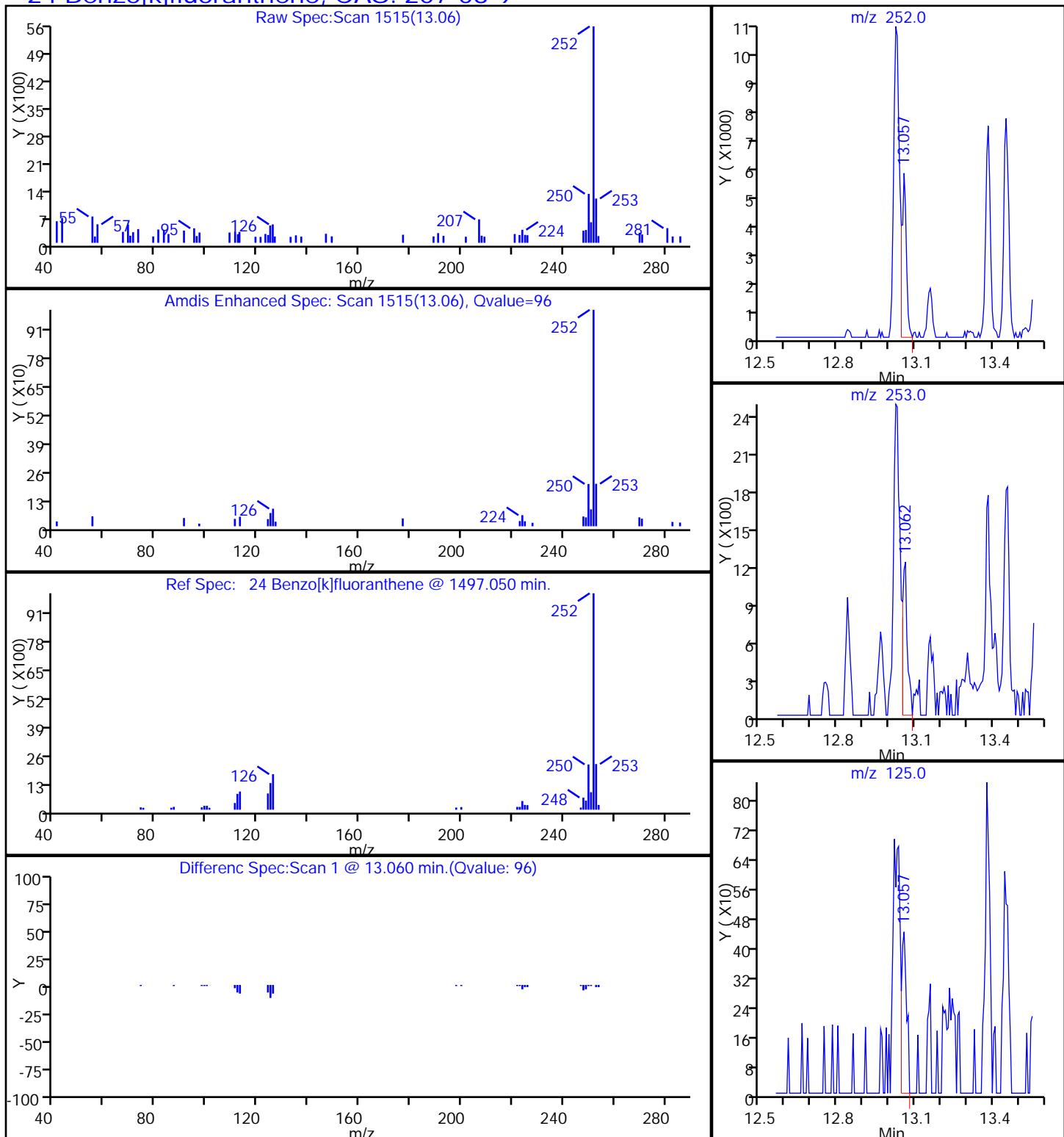
Column: Restek RXi-5Sil MS ( 0.25 mm)

Detector: MS SCAN

**28 Benzo[g,h,i]perylene, CAS: 191-24-2**

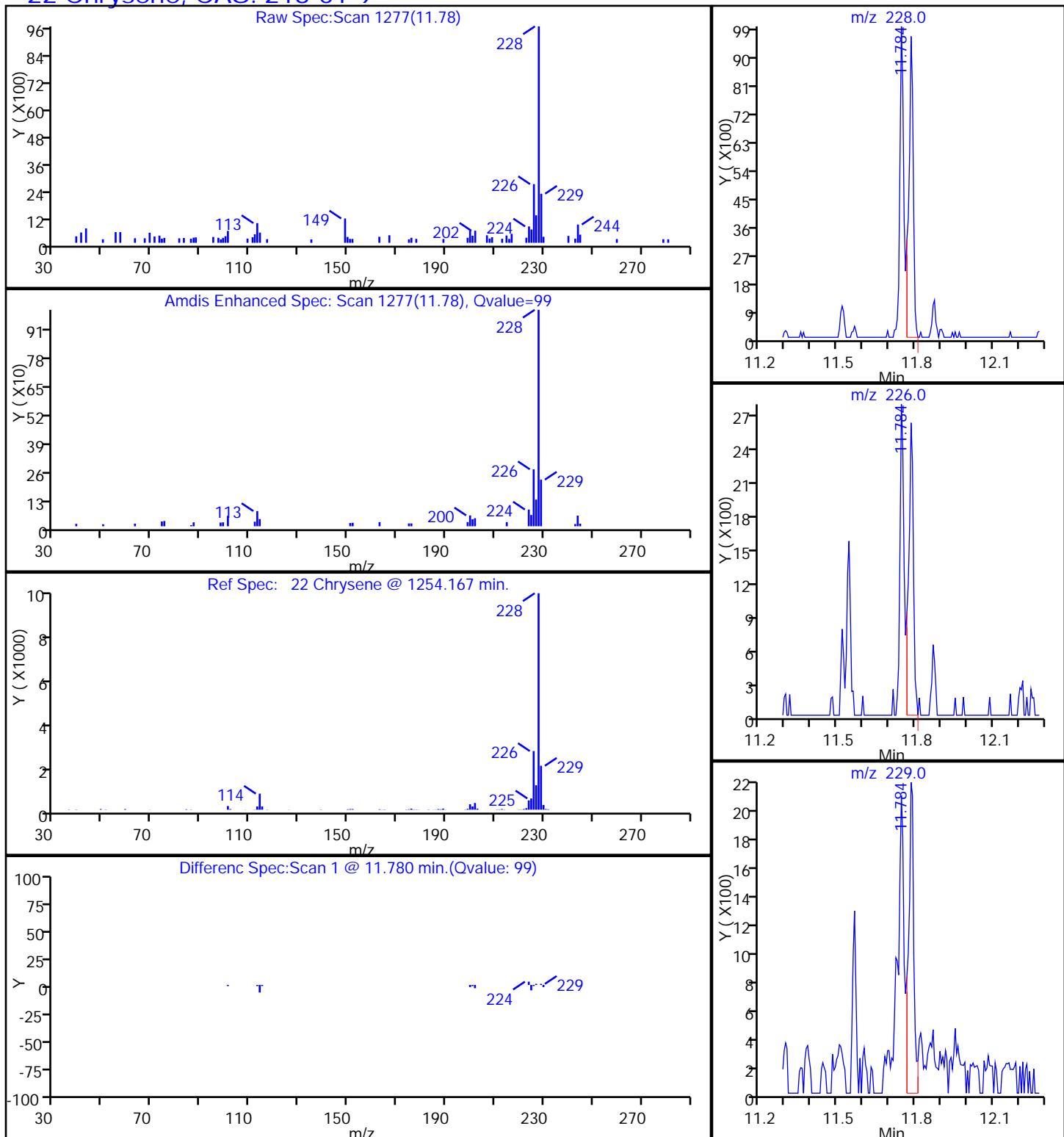
TestAmerica Savannah  
 Data File: \\ChromNA\\Savannah\\ChromData\CMSY\\20150818-22358.b\\1YF18014.D  
 Injection Date: 18-Aug-2015 17:51:30 Instrument ID: CMSY  
 Lims ID: 680-115692-A-6-A Lab Sample ID: 680-115692-6  
 Client ID: CV0511TT-CS-6  
 Operator ID: LIMS import ALS Bottle#: 14 Worklist Smp#: 14  
 Injection Vol: 2.0 ul Dil. Factor: 10.0000  
 Method: 8270D\_LLPAH\_MSY Limit Group: 8270D\_LL\_PAH  
 Column: Restek RXi-5Sil MS ( 0.25 mm) Detector MS SCAN

### 24 Benzo[k]fluoranthene, CAS: 207-08-9



TestAmerica Savannah  
 Data File: \\ChromNA\\Savannah\\ChromData\CMSY\\20150818-22358.b\\1YF18014.D  
 Injection Date: 18-Aug-2015 17:51:30 Instrument ID: CMSY  
 Lims ID: 680-115692-A-6-A Lab Sample ID: 680-115692-6  
 Client ID: CV0511TT-CS-6  
 Operator ID: LIMS import ALS Bottle#: 14 Worklist Smp#: 14  
 Injection Vol: 2.0 ul Dil. Factor: 10.0000  
 Method: 8270D\_LLPAH\_MSY Limit Group: 8270D\_LL\_PAH  
 Column: Restek RXi-5Sil MS ( 0.25 mm) Detector MS SCAN

## 22 Chrysene, CAS: 218-01-9



TestAmerica Savannah

Data File: \\ChromNA\\Savannah\\ChromData\\CMSY\\20150818-22358.b\\1YF18014.D

Injection Date: 18-Aug-2015 17:51:30

Instrument ID: CMSY

Lims ID: 680-115692-A-6-A

Lab Sample ID: 680-115692-6

Client ID: CV0511TT-CS-6

Operator ID: LIMS import

ALS Bottle#: 14 Worklist Smp#: 14

Injection Vol: 2.0 ul

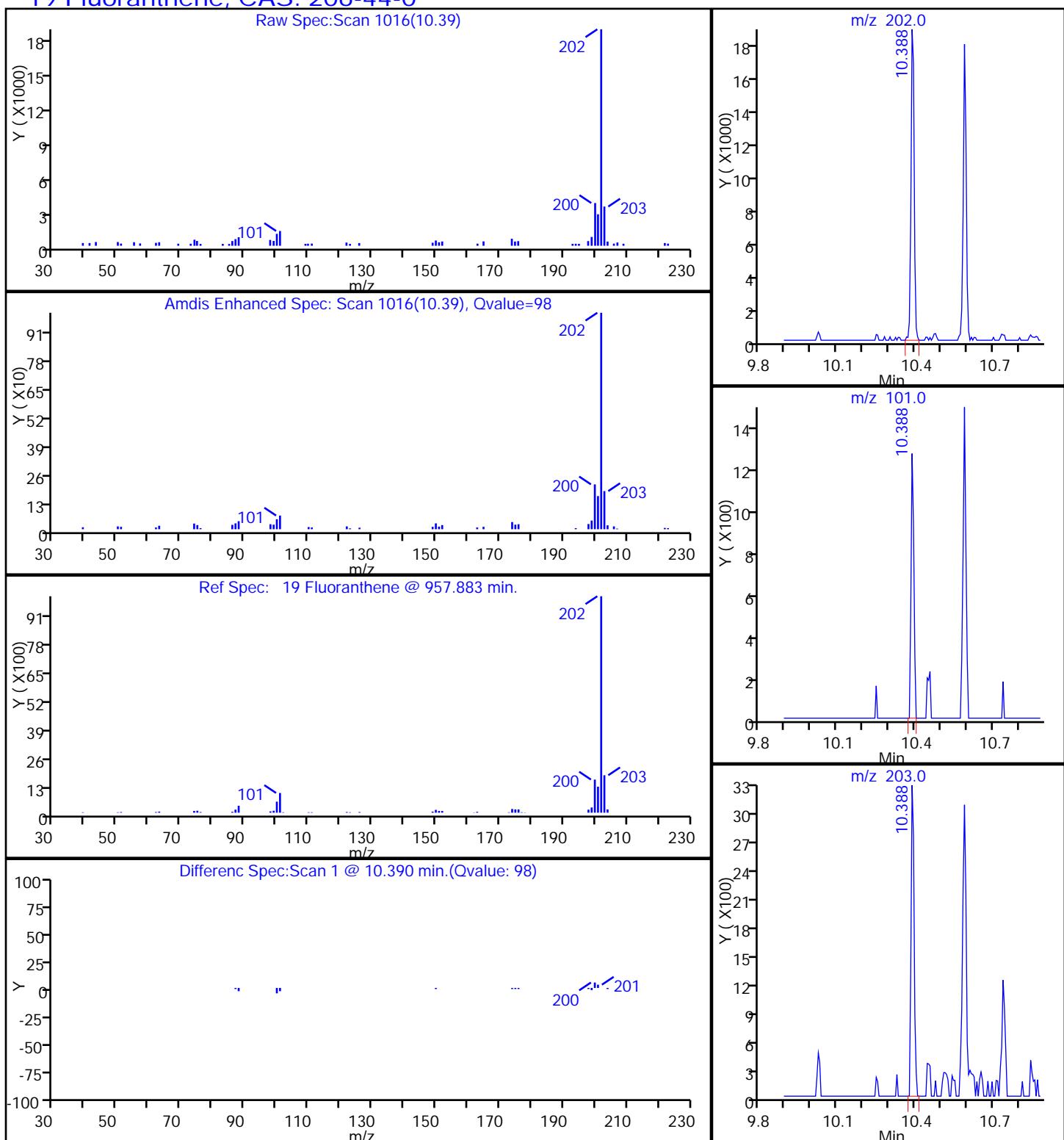
Dil. Factor: 10.0000

Method: 8270D\_LLPAH\_MSY

Limit Group: 8270D\_LL\_PAH

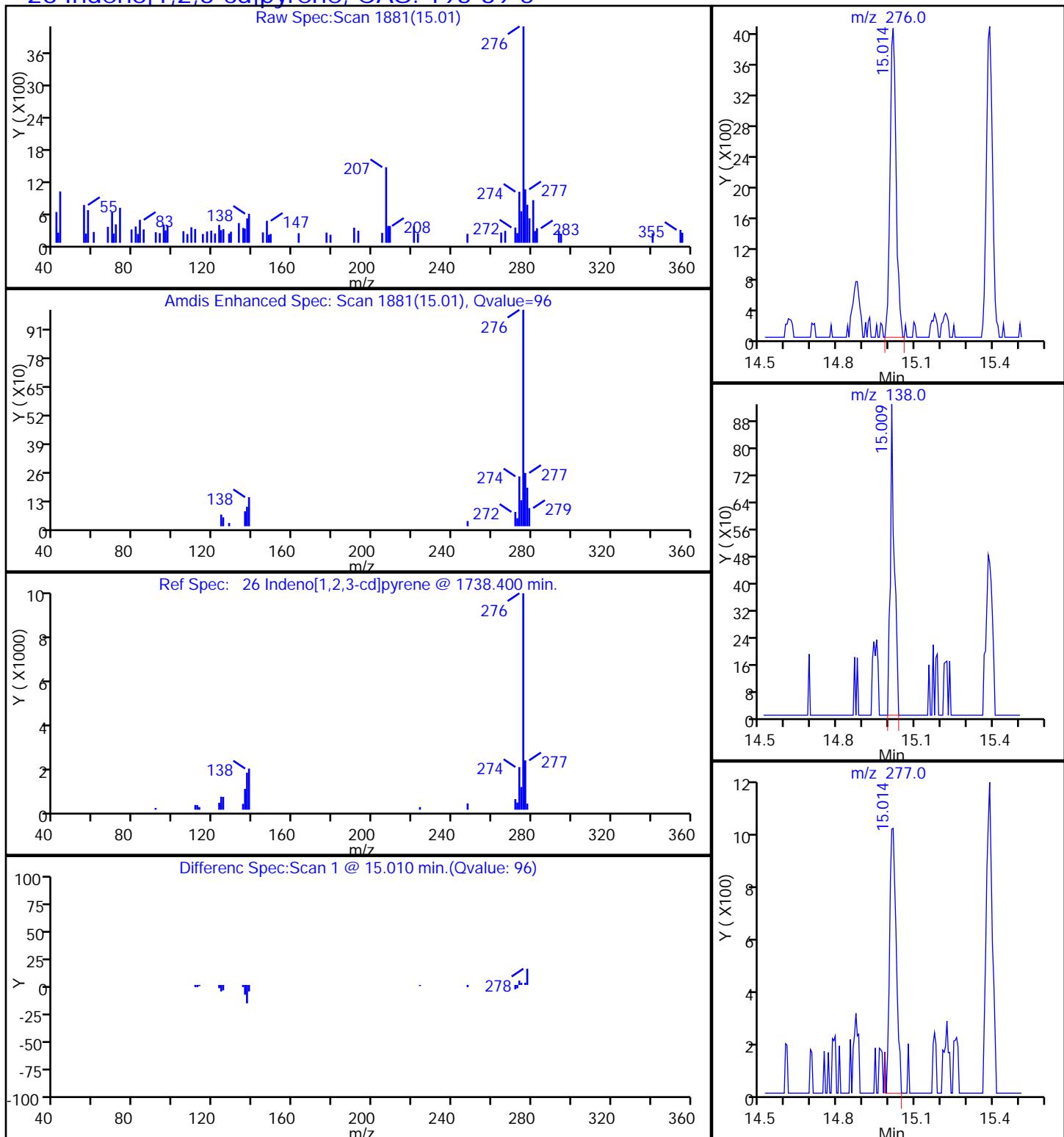
Column: Restek RXi-5Sil MS ( 0.25 mm)

Detector MS SCAN

**19 Fluoranthene, CAS: 206-44-0**

TestAmerica Savannah  
 Data File: \\ChromNA\\Savannah\\ChromData\\CMSY\\20150818-22358.b\\1YF18014.D  
 Injection Date: 18-Aug-2015 17:51:30 Instrument ID: CMSY  
 Lims ID: 680-115692-A-6-A Lab Sample ID: 680-115692-6  
 Client ID: CV0511TT-CS-6  
 Operator ID: LIMS import ALS Bottle#: 14 Worklist Smp#: 14  
 Injection Vol: 2.0 ul Dil. Factor: 10.0000  
 Method: 8270D\_LLPAH\_MSY Limit Group: 8270D\_LL\_PAH  
 Column: Restek RXi-5Sil MS ( 0.25 mm) Detector MS SCAN

### 26 Indeno[1,2,3-cd]pyrene, CAS: 193-39-5



TestAmerica Savannah

Data File: \\ChromNA\\Savannah\\ChromData\CMSY\\20150818-22358.b\\1YF18014.D

Injection Date: 18-Aug-2015 17:51:30

Instrument ID: CMSY

Lims ID: 680-115692-A-6-A

Lab Sample ID: 680-115692-6

Client ID: CV0511TT-CS-6

Operator ID: LIMS import

ALS Bottle#: 14 Worklist Smp#: 14

Injection Vol: 2.0 ul

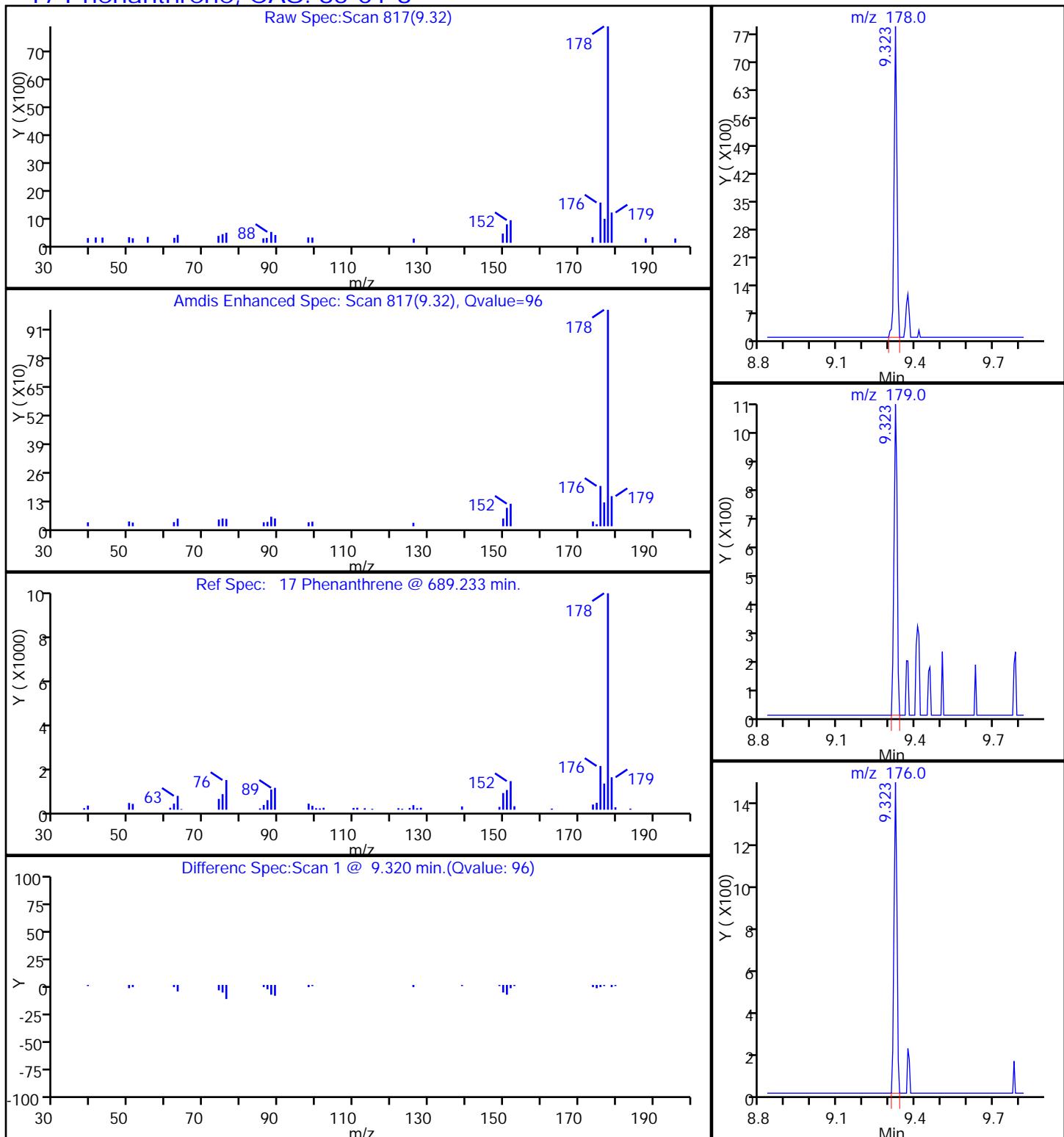
Dil. Factor: 10.0000

Method: 8270D\_LLPAH\_MSY

Limit Group: 8270D\_LL\_PAH

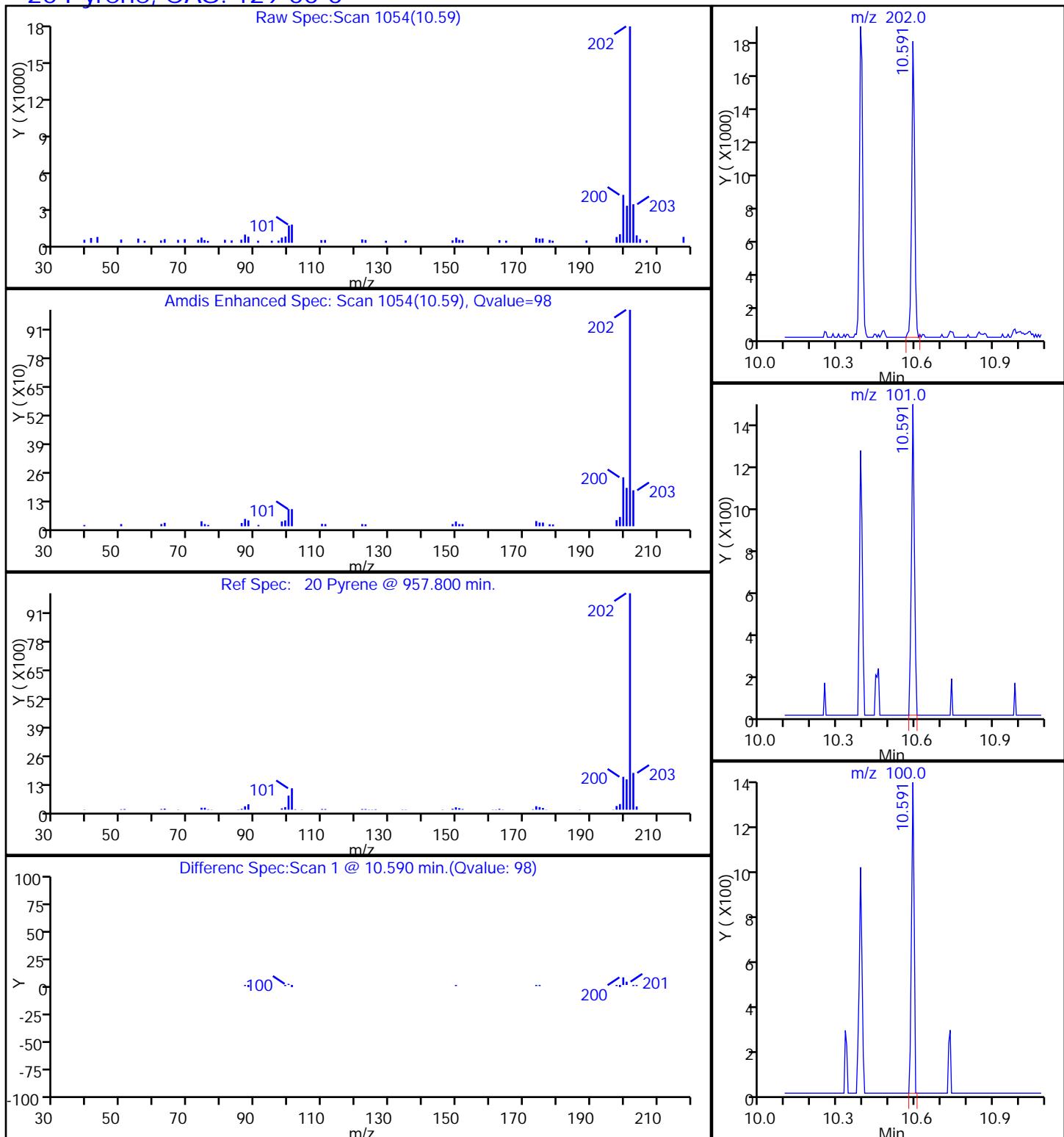
Column: Restek RXi-5Sil MS ( 0.25 mm)

Detector: MS SCAN

**17 Phenanthrene, CAS: 85-01-8**

TestAmerica Savannah  
 Data File: \\ChromNA\\Savannah\\ChromData\\CMSY\\20150818-22358.b\\1YF18014.D  
 Injection Date: 18-Aug-2015 17:51:30 Instrument ID: CMSY  
 Lims ID: 680-115692-A-6-A Lab Sample ID: 680-115692-6  
 Client ID: CV0511TT-CS-6  
 Operator ID: LIMS import ALS Bottle#: 14 Worklist Smp#: 14  
 Injection Vol: 2.0 ul Dil. Factor: 10.0000  
 Method: 8270D\_LLPAH\_MSY Limit Group: 8270D\_LL\_PAH  
 Column: Restek RXi-5Sil MS ( 0.25 mm) Detector MS SCAN

## 20 Pyrene, CAS: 129-00-0



FORM I  
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Lab Name: TestAmerica Savannah	Job No.: 680-115692-1
SDG No.: 680-115692-01	
Client Sample ID: CV0511TT-CS-12	Lab Sample ID: 680-115692-7
Matrix: Solid	Lab File ID: 1YF18015.D
Analysis Method: 8270D_LL_PAH	Date Collected: 08/10/2015 14:50
Extract. Method: 3546	Date Extracted: 08/17/2015 10:44
Sample wt/vol: 30.19(g)	Date Analyzed: 08/18/2015 18:19
Con. Extract Vol.: 1(mL)	Dilution Factor: 10
Injection Volume: 2(uL)	Level: (low/med) Low
% Moisture: 13.8	GPC Cleanup: (Y/N) N
Analysis Batch No.: 396712	Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	77	U	77	38
208-96-8	Acenaphthylene	77	U	77	38
120-12-7	Anthracene	77	U	77	38
56-55-3	Benzo[a]anthracene	120		77	38
50-32-8	Benzo[a]pyrene	130		77	14
205-99-2	Benzo[b]fluoranthene	190		77	38
191-24-2	Benzo[g,h,i]perylene	66	J	77	38
207-08-9	Benzo[k]fluoranthene	86		77	23
218-01-9	Chrysene	130		77	38
53-70-3	Dibenz(a,h)anthracene	77	U	77	38
206-44-0	Fluoranthene	230		77	38
86-73-7	Fluorene	77	U	77	38
193-39-5	Indeno[1,2,3-cd]pyrene	44	J	77	38
90-12-0	1-Methylnaphthalene	43	J	77	36
91-57-6	2-Methylnaphthalene	44	J	77	38
91-20-3	Naphthalene	77	U	77	38
85-01-8	Phenanthrene	110		77	28
129-00-0	Pyrene	180		77	38

CAS NO.	SURROGATE	%REC	Q	LIMITS
84-15-1	o-Terphenyl	0	D	36-131

TestAmerica Savannah  
Target Compound Quantitation Report

Data File: \\ChromNA\Savannah\ChromData\CMSY\20150818-22358.b\1YF18015.D  
 Lims ID: 680-115692-A-7-A Lab Sample ID: 680-115692-7  
 Client ID: CV0511TT-CS-12  
 Sample Type: Client  
 Inject. Date: 18-Aug-2015 18:19:30 ALS Bottle#: 15 Worklist Smp#: 15  
 Injection Vol: 2.0 ul Dil. Factor: 10.0000  
 Sample Info: 680-115692-A-7-A  
 Misc. Info.: 680-0022358-015  
 Operator ID: LIMS import Instrument ID: CMSY  
 Method: \\ChromNA\Savannah\ChromData\CMSY\20150818-22358.b\8270D\_LLPAH\_MSY.m  
 Limit Group: 8270D\_LL\_PAH  
 Last Update: 19-Aug-2015 11:22:28 Calib Date: 12-Aug-2015 16:37:30  
 Integrator: RTE ID Type: Deconvolution ID  
 Quant Method: Internal Standard Quant By: Initial Calibration  
 Last ICAL File: \\ChromNA\Savannah\ChromData\CMSY\20150812-22174.b\1YF12008.D  
 Column 1 : Restek RXi-5Sil MS ( 0.25 mm) Det: MS SCAN  
 Process Host: XAWRK003

First Level Reviewer: millsj Date: 19-Aug-2015 10:47:53

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/ml	Flags
* 1 Naphthalene-d8	136	6.365	6.366	-0.001	99	48582	2.00	
* 2 Acenaphthene-d10	164	7.970	7.975	-0.005	97	26270	2.00	
* 3 Phenanthrene-d10	188	9.302	9.307	-0.005	97	57732	2.00	
* 4 Chrysene-d12	240	11.762	11.773	-0.011	98	84927	2.00	
* 5 Perylene-d12	264	13.527	13.538	-0.011	98	79110	2.00	
7 Naphthalene	128	6.387	6.387	0.000	36	1823	0.0831	
9 2-Methylnaphthalene	142	7.034	7.034	0.000	45	1795	0.1145	
10 1-Methylnaphthalene	142	7.120	7.120	0.000	12	1563	0.1123	
17 Phenanthrene	178	9.323	9.329	-0.006	96	7722	0.2799	
18 Anthracene	178	9.371	9.371	0.000	17	1029	0.0434	
19 Fluoranthene	202	10.393	10.398	-0.005	98	19577	0.5906	
20 Pyrene	202	10.591	10.602	-0.011	98	17575	0.4735	
21 Benzo[a]anthracene	228	11.746	11.762	-0.016	95	13110	0.3208	
22 Chrysene	228	11.789	11.805	-0.016	99	13430	0.3438	
23 Benzo[b]fluoranthene	252	13.025	13.041	-0.017	96	19020	0.4919	
24 Benzo[k]fluoranthene	252	13.057	13.078	-0.021	95	8455	0.2240	
25 Benzo[a]pyrene	252	13.458	13.469	-0.011	98	11962	0.3327	
26 Indeno[1,2,3-cd]pyrene	276	15.014	15.025	-0.011	95	7200	0.1153	
28 Benzo[g,h,i]perylene	276	15.383	15.399	-0.016	95	7133	0.1706	

**Reagents:**

SM-LLISTD\_00128 Amount Added: 10.00 Units: uL Run Reagent

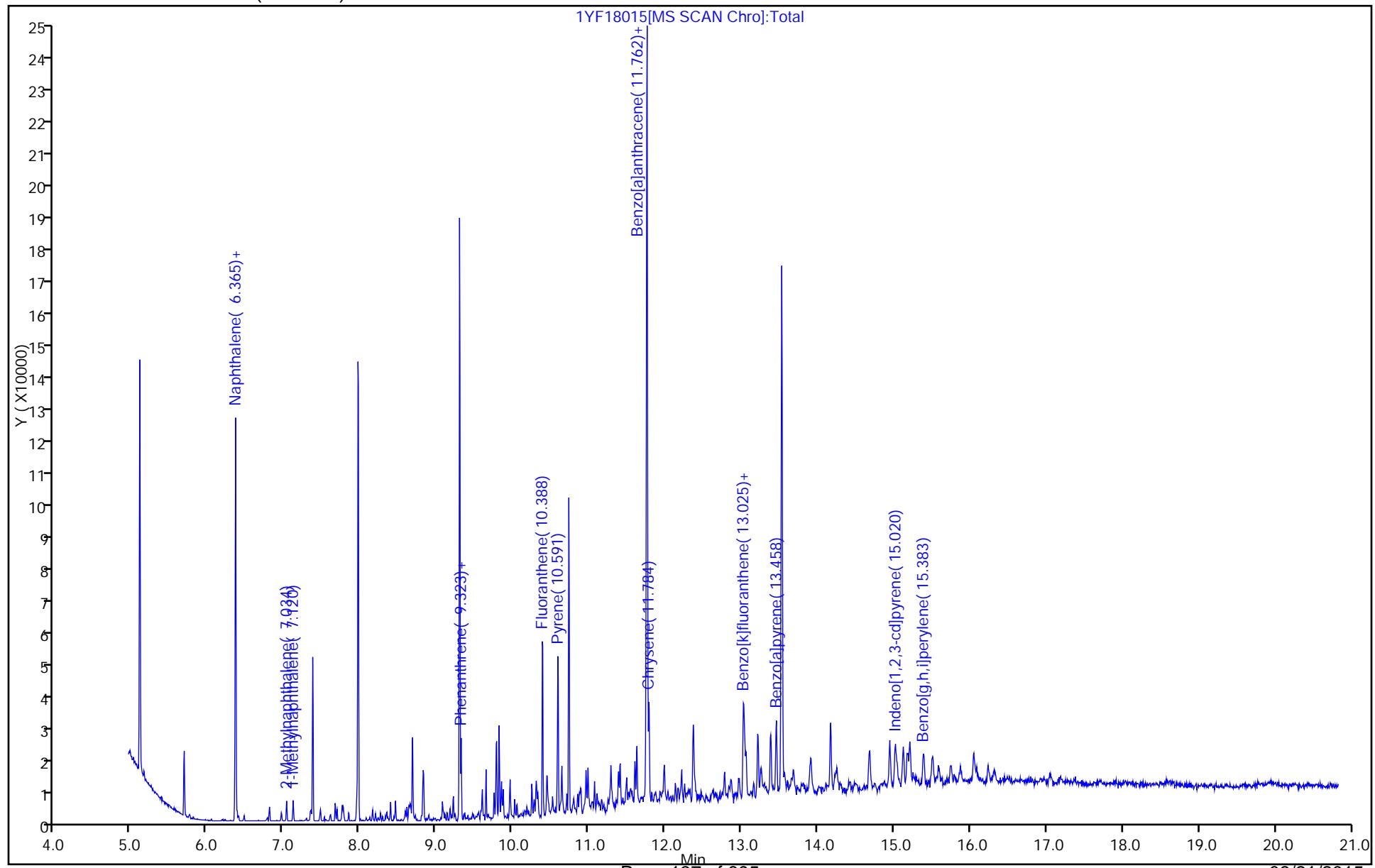
Report Date: 19-Aug-2015 11:22:45

Chrom Revision: 2.2 23-Jul-2015 08:26:08

## TestAmerica Savannah

Data File: \\ChromNA\\Savannah\\ChromData\\CMSY\\20150818-22358.b\\1YF18015.D  
Injection Date: 18-Aug-2015 18:19:30 Instrument ID: CMSY  
Lims ID: 680-115692-A-7-A Lab Sample ID: 680-115692-7  
Client ID: CV0511TT-CS-12  
Injection Vol: 2.0 ul Dil. Factor: 10.0000  
Method: 8270D\_LLPAH\_MSY Limit Group: 8270D\_LL\_PAH  
Column: Restek RXi-5Sil MS ( 0.25 mm)

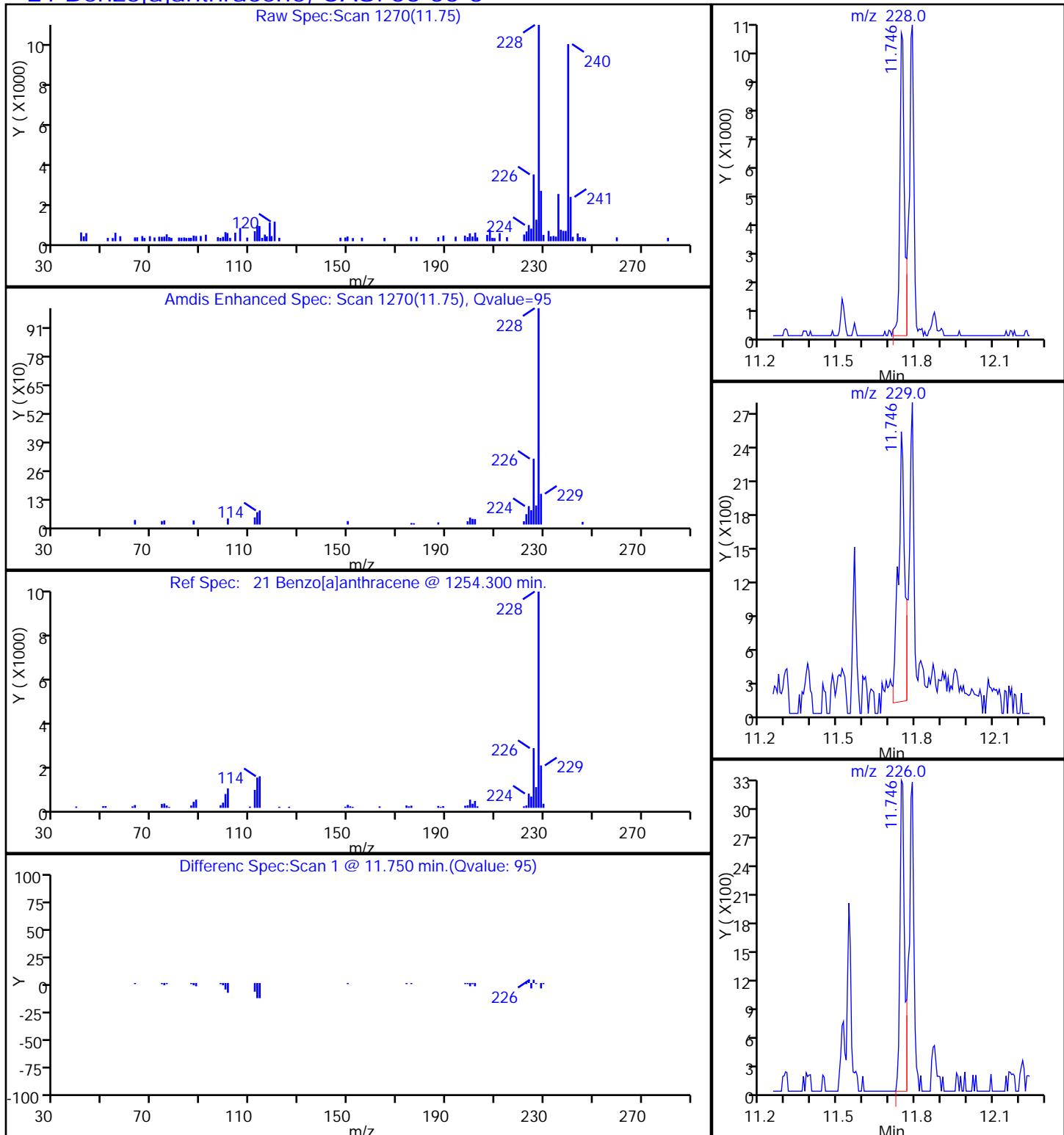
Operator ID: LIMS import  
Worklist Smp#: 15



## TestAmerica Savannah

Data File: \\ChromNA\\Savannah\\ChromData\CMSY\\20150818-22358.b\\1YF18015.D  
 Injection Date: 18-Aug-2015 18:19:30 Instrument ID: CMSY  
 Lims ID: 680-115692-A-7-A Lab Sample ID: 680-115692-7  
 Client ID: CV0511TT-CS-12  
 Operator ID: LIMS import ALS Bottle#: 15 Worklist Smp#: 15  
 Injection Vol: 2.0 ul Dil. Factor: 10.0000  
 Method: 8270D\_LLPAH\_MSY Limit Group: 8270D\_LL\_PAH  
 Column: Restek RXi-5Sil MS ( 0.25 mm) Detector: MS SCAN

## 21 Benzo[a]anthracene, CAS: 56-55-3



TestAmerica Savannah

Data File: \\ChromNA\\Savannah\\ChromData\CMSY\\20150818-22358.b\\1YF18015.D

Injection Date: 18-Aug-2015 18:19:30

Instrument ID: CMSY

Lims ID: 680-115692-A-7-A

Lab Sample ID: 680-115692-7

Client ID: CV0511TT-CS-12

Operator ID: LIMS import

ALS Bottle#: 15 Worklist Smp#: 15

Injection Vol: 2.0 ul

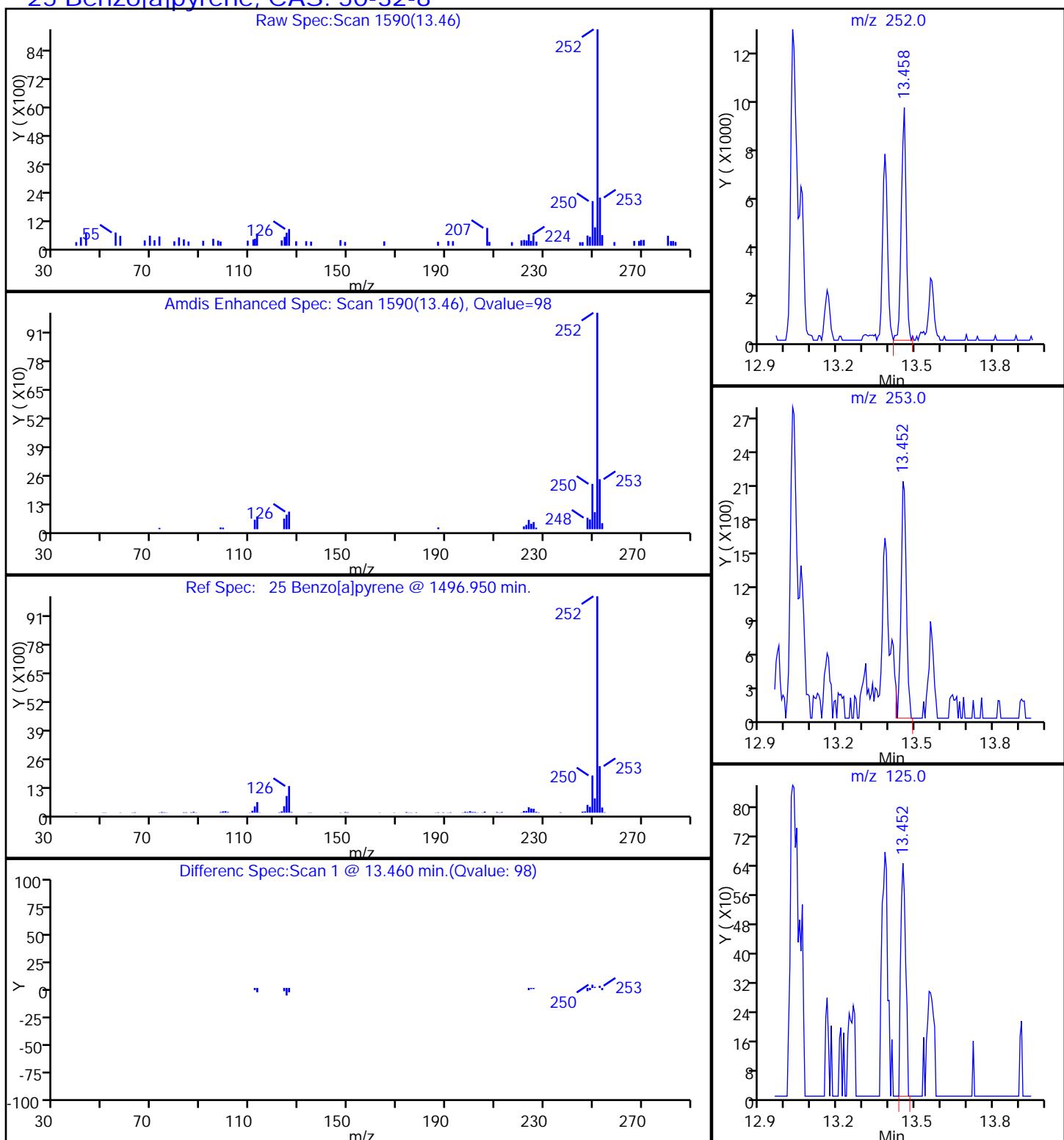
Dil. Factor: 10.0000

Method: 8270D\_LLPAH\_MSY

Limit Group: 8270D\_LL\_PAH

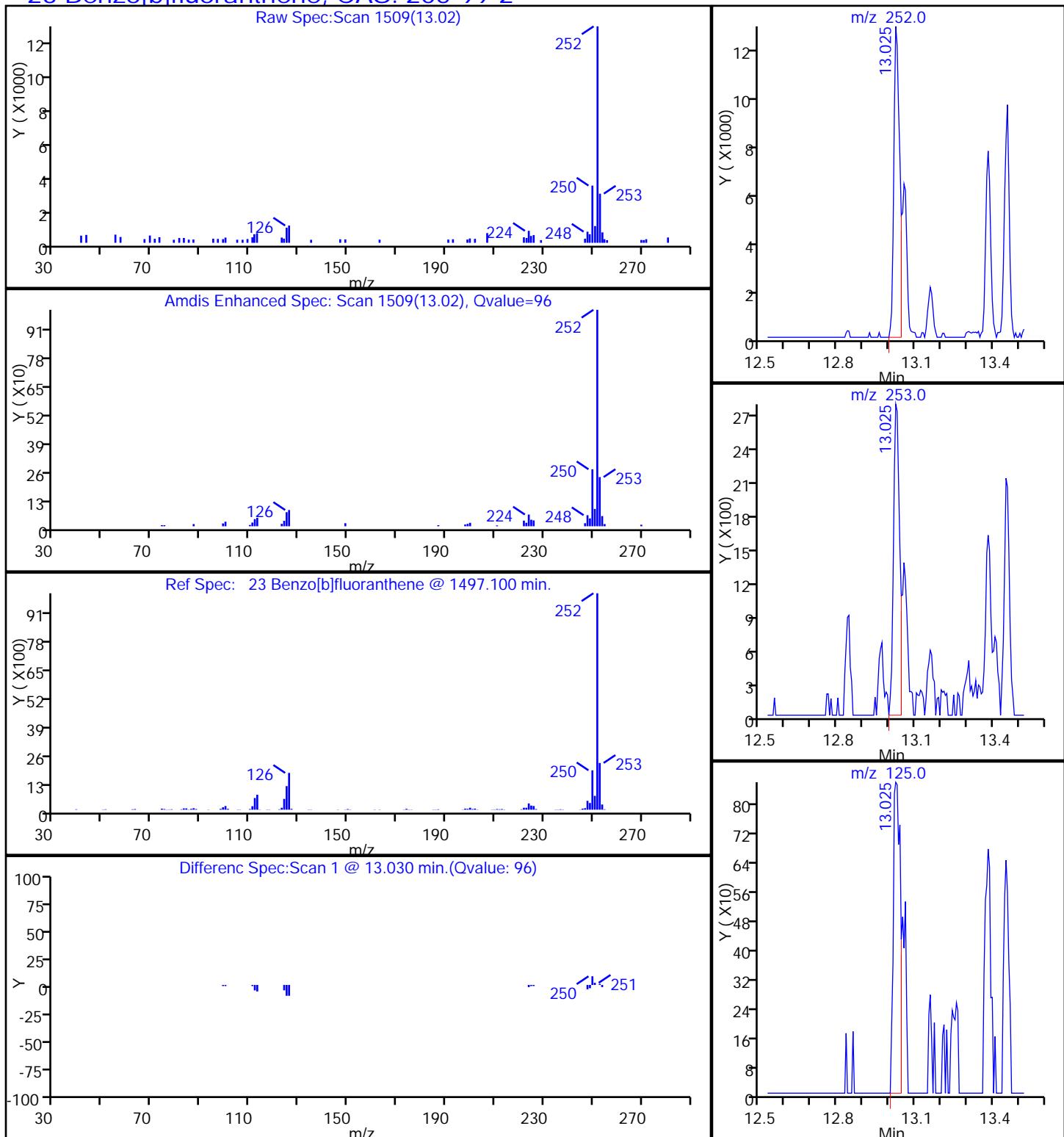
Column: Restek RXi-5Sil MS ( 0.25 mm)

Detector: MS SCAN

**25 Benzo[a]pyrene, CAS: 50-32-8**

TestAmerica Savannah  
 Data File: \\ChromNA\\Savannah\\ChromData\\CMSY\\20150818-22358.b\\1YF18015.D  
 Injection Date: 18-Aug-2015 18:19:30 Instrument ID: CMSY  
 Lims ID: 680-115692-A-7-A Lab Sample ID: 680-115692-7  
 Client ID: CV0511TT-CS-12  
 Operator ID: LIMS import ALS Bottle#: 15 Worklist Smp#: 15  
 Injection Vol: 2.0 ul Dil. Factor: 10.0000  
 Method: 8270D\_LLPAH\_MSY Limit Group: 8270D\_LL\_PAH  
 Column: Restek RXi-5Sil MS ( 0.25 mm) Detector MS SCAN

### 23 Benzo[b]fluoranthene, CAS: 205-99-2



TestAmerica Savannah

Data File: \\ChromNA\\Savannah\\ChromData\CMSY\\20150818-22358.b\\1YF18015.D

Injection Date: 18-Aug-2015 18:19:30

Instrument ID: CMSY

Lims ID: 680-115692-A-7-A

Lab Sample ID: 680-115692-7

Client ID: CV0511TT-CS-12

Operator ID: LIMS import

ALS Bottle#: 15 Worklist Smp#: 15

Injection Vol: 2.0 ul

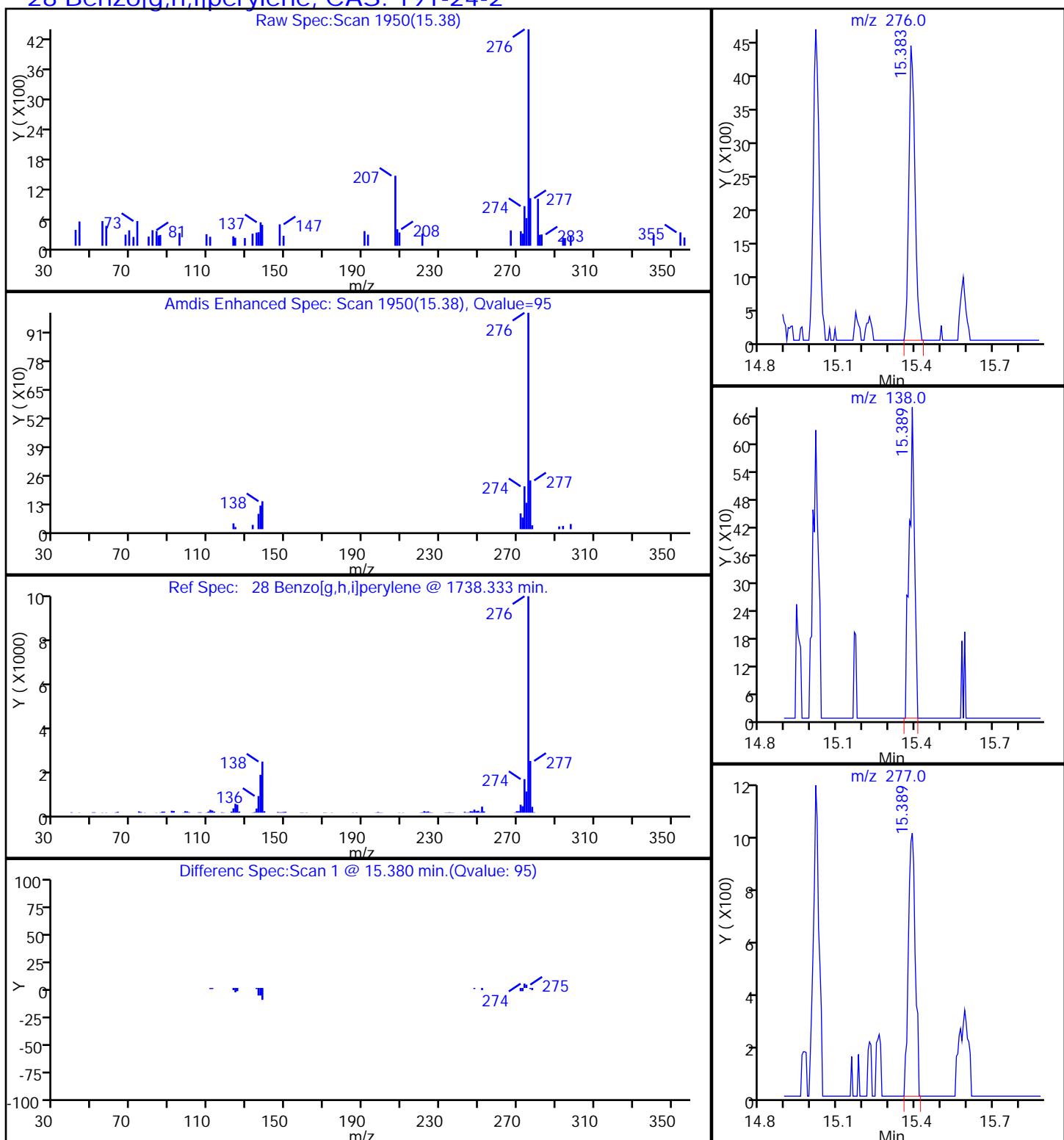
Dil. Factor: 10.0000

Method: 8270D\_LLPAH\_MSY

Limit Group: 8270D\_LL\_PAH

Column: Restek RXi-5Sil MS ( 0.25 mm)

Detector MS SCAN

**28 Benzo[g,h,i]perylene, CAS: 191-24-2**

TestAmerica Savannah

Data File: \\ChromNA\\Savannah\\ChromData\CMSY\\20150818-22358.b\\1YF18015.D

Injection Date: 18-Aug-2015 18:19:30

Instrument ID: CMSY

Lims ID: 680-115692-A-7-A

Lab Sample ID: 680-115692-7

Client ID: CV0511TT-CS-12

Operator ID: LIMS import

ALS Bottle#: 15 Worklist Smp#: 15

Injection Vol: 2.0 ul

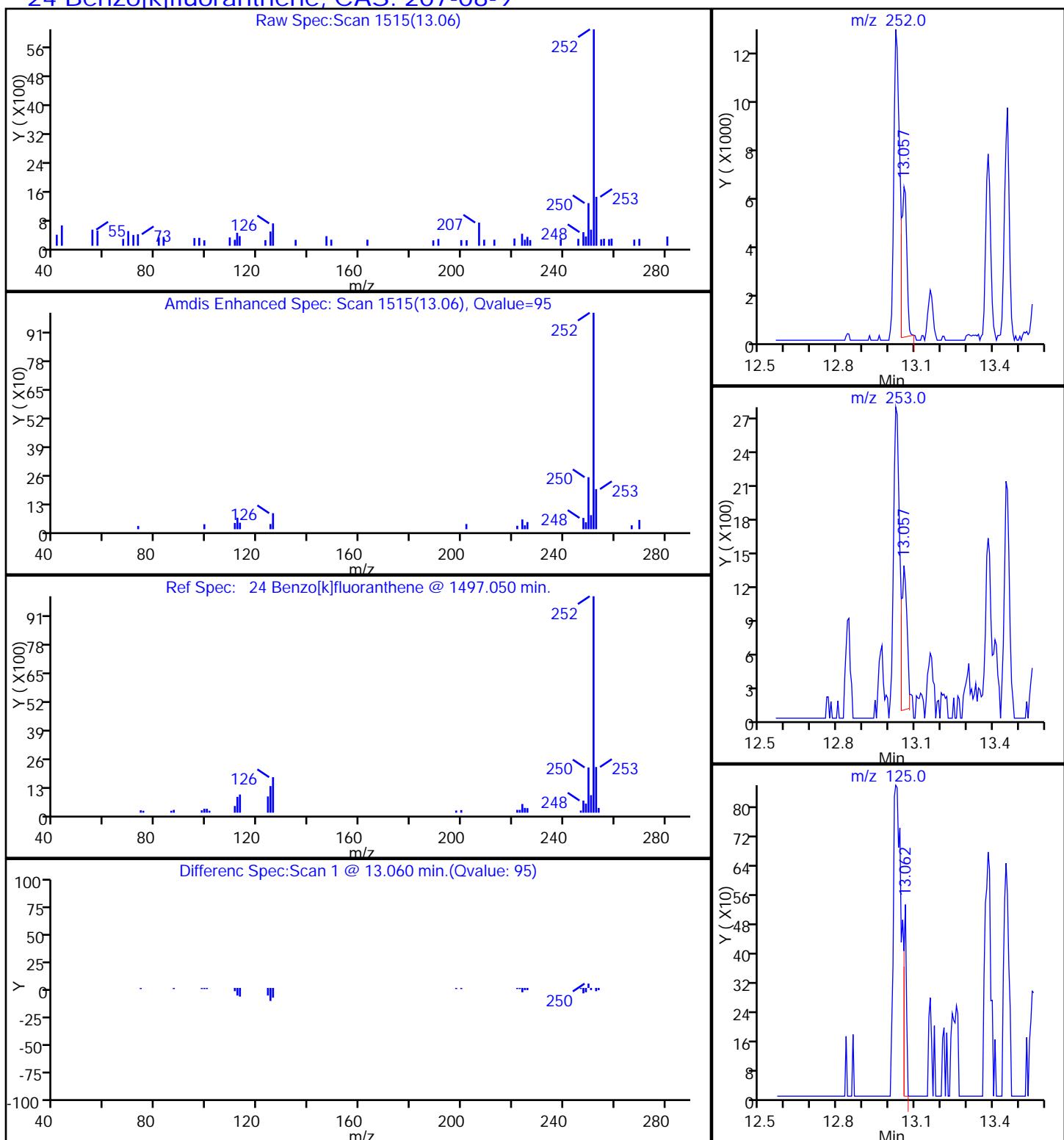
Dil. Factor: 10.0000

Method: 8270D\_LLPAH\_MSY

Limit Group: 8270D\_LL\_PAH

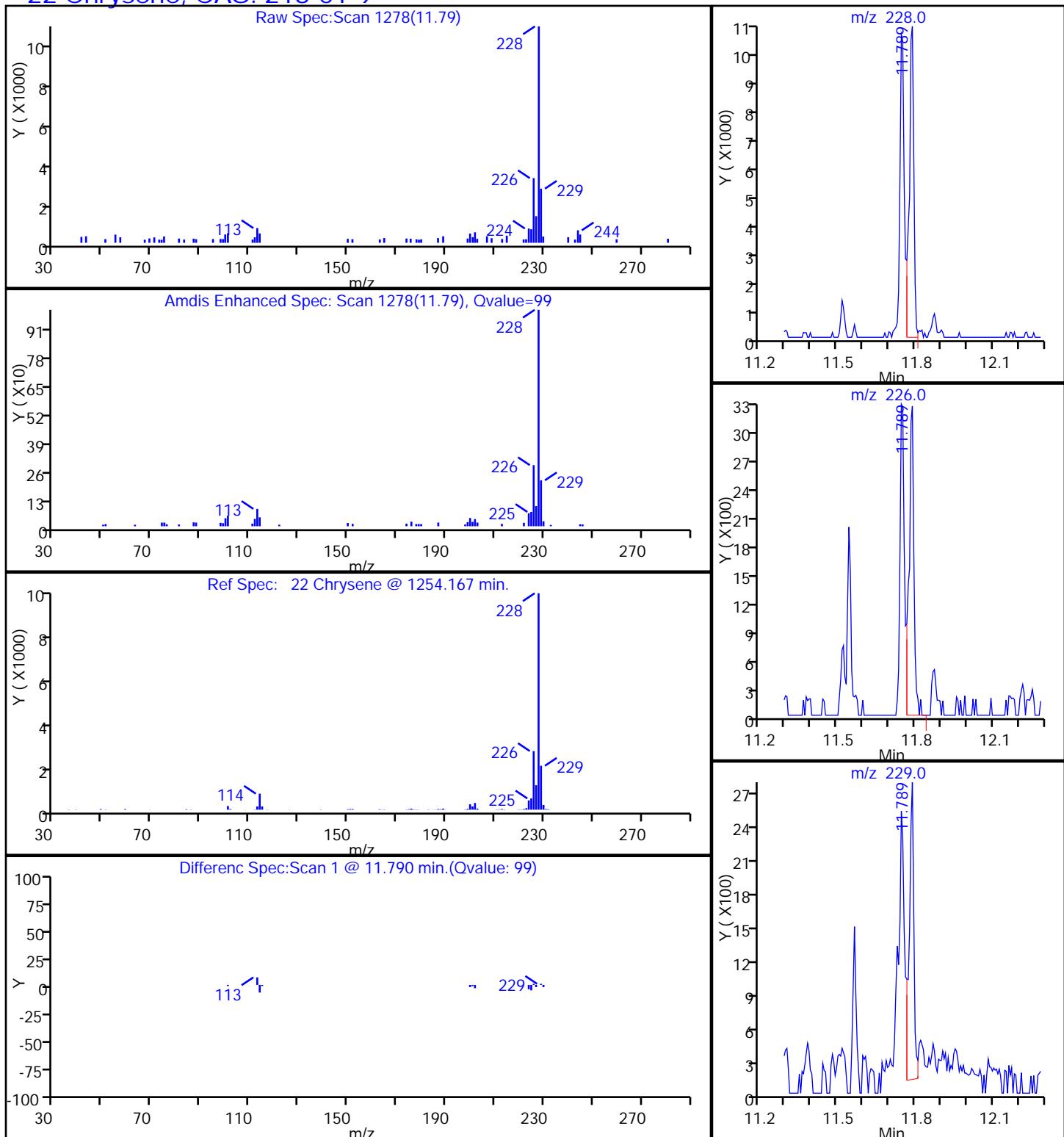
Column: Restek RXi-5Sil MS ( 0.25 mm)

Detector MS SCAN

**24 Benzo[k]fluoranthene, CAS: 207-08-9**

TestAmerica Savannah  
 Data File: \\ChromNA\\Savannah\\ChromData\CMSY\\20150818-22358.b\\1YF18015.D  
 Injection Date: 18-Aug-2015 18:19:30 Instrument ID: CMSY  
 Lims ID: 680-115692-A-7-A Lab Sample ID: 680-115692-7  
 Client ID: CV0511TT-CS-12  
 Operator ID: LIMS import ALS Bottle#: 15 Worklist Smp#: 15  
 Injection Vol: 2.0 ul Dil. Factor: 10.0000  
 Method: 8270D\_LLPAH\_MSY Limit Group: 8270D\_LL\_PAH  
 Column: Restek RXi-5Sil MS ( 0.25 mm) Detector MS SCAN

### 22 Chrysene, CAS: 218-01-9



TestAmerica Savannah

Data File: \\ChromNA\\Savannah\\ChromData\\CMSY\\20150818-22358.b\\1YF18015.D

Injection Date: 18-Aug-2015 18:19:30

Instrument ID: CMSY

Lims ID: 680-115692-A-7-A

Lab Sample ID: 680-115692-7

Client ID: CV0511TT-CS-12

Operator ID: LIMS import

ALS Bottle#: 15 Worklist Smp#: 15

Injection Vol: 2.0 ul

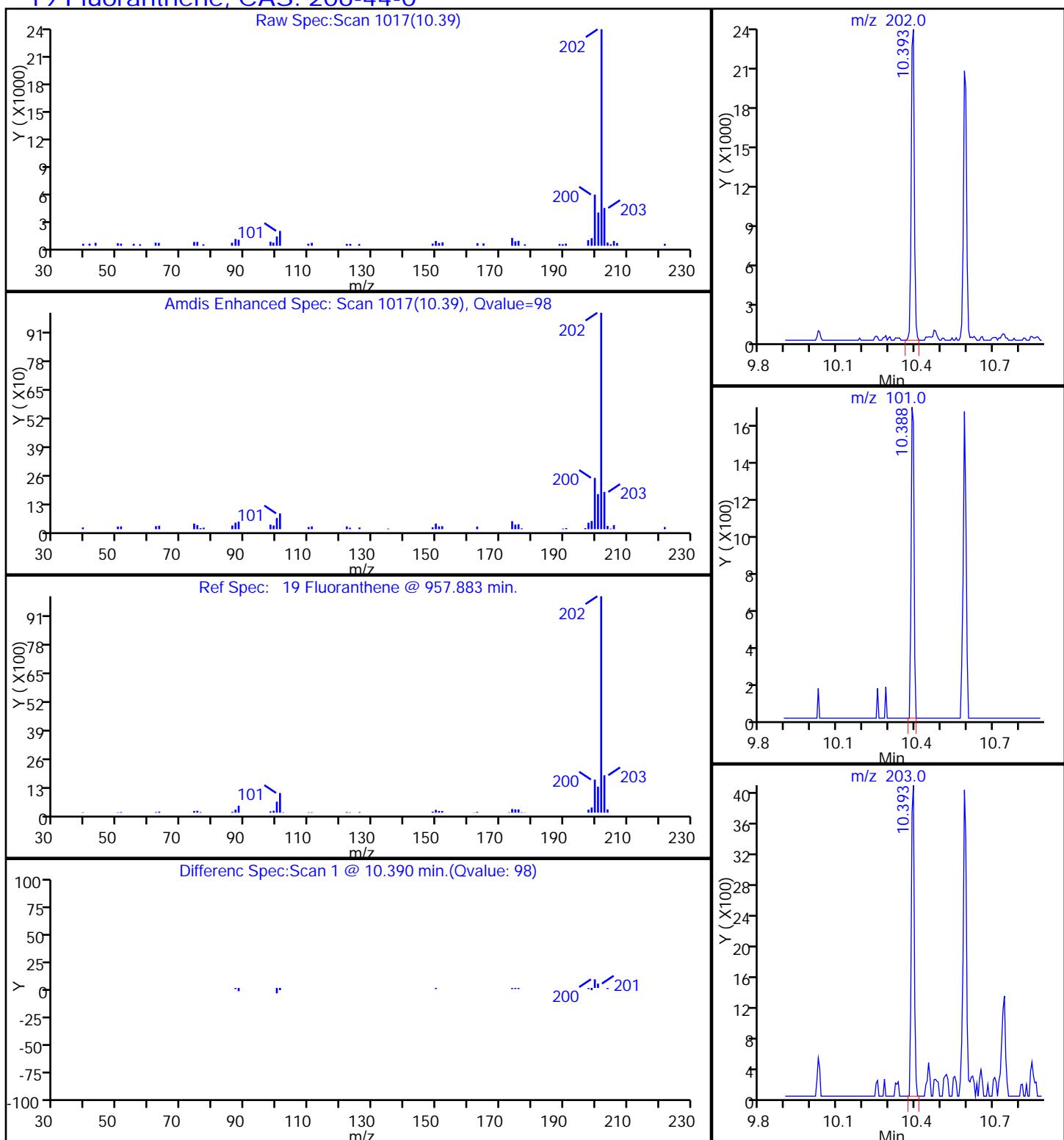
Dil. Factor: 10.0000

Method: 8270D\_LLPAH\_MSY

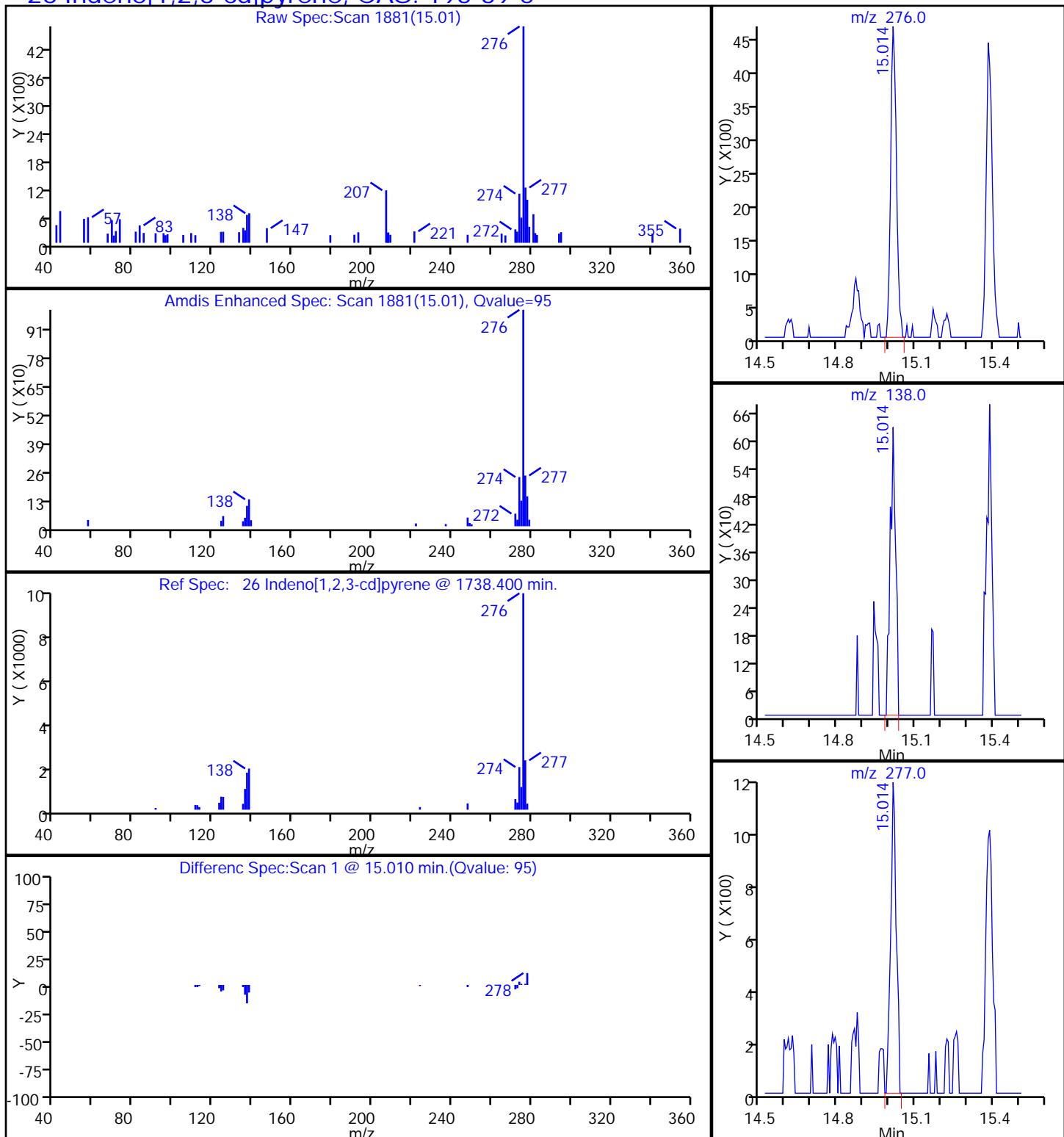
Limit Group: 8270D\_LL\_PAH

Column: Restek RXi-5Sil MS ( 0.25 mm)

Detector: MS SCAN

**19 Fluoranthene, CAS: 206-44-0**

TestAmerica Savannah  
 Data File: \\ChromNA\\Savannah\\ChromData\\CMSY\\20150818-22358.b\\1YF18015.D  
 Injection Date: 18-Aug-2015 18:19:30 Instrument ID: CMSY  
 Lims ID: 680-115692-A-7-A Lab Sample ID: 680-115692-7  
 Client ID: CV0511TT-CS-12  
 Operator ID: LIMS import ALS Bottle#: 15 Worklist Smp#: 15  
 Injection Vol: 2.0 ul Dil. Factor: 10.0000  
 Method: 8270D\_LLPAH\_MSY Limit Group: 8270D\_LL\_PAH  
 Column: Restek RXi-5Sil MS ( 0.25 mm) Detector MS SCAN

**26 Indeno[1,2,3-cd]pyrene, CAS: 193-39-5**

TestAmerica Savannah

Data File: \\ChromNA\\Savannah\\ChromData\CMSY\\20150818-22358.b\\1YF18015.D

Injection Date: 18-Aug-2015 18:19:30

Instrument ID: CMSY

Lims ID: 680-115692-A-7-A

Lab Sample ID: 680-115692-7

Client ID: CV0511TT-CS-12

Operator ID: LIMS import

ALS Bottle#: 15 Worklist Smp#: 15

Injection Vol: 2.0 ul

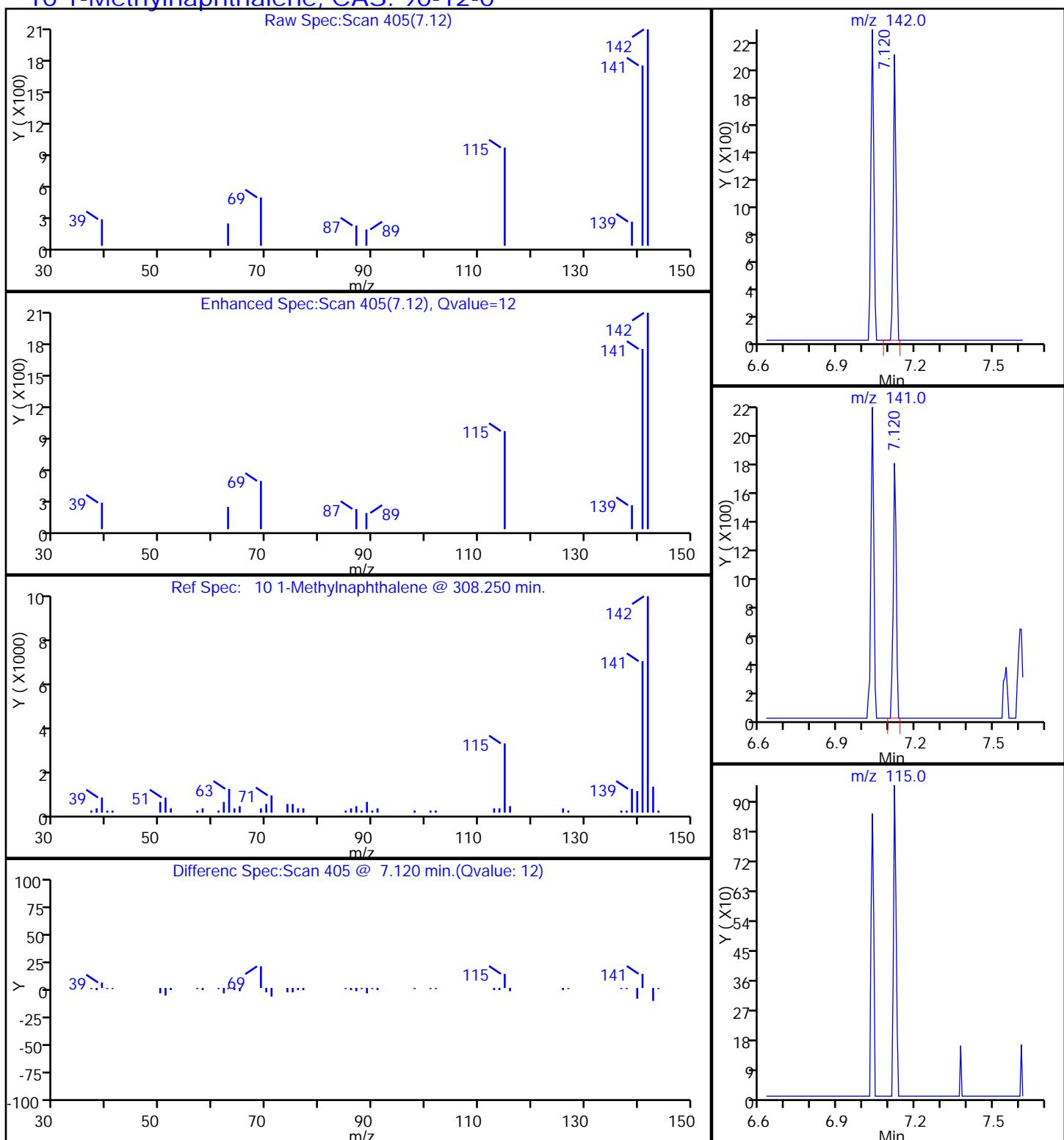
Dil. Factor: 10.0000

Method: 8270D\_LLPAH\_MSY

Limit Group: 8270D\_LL\_PAH

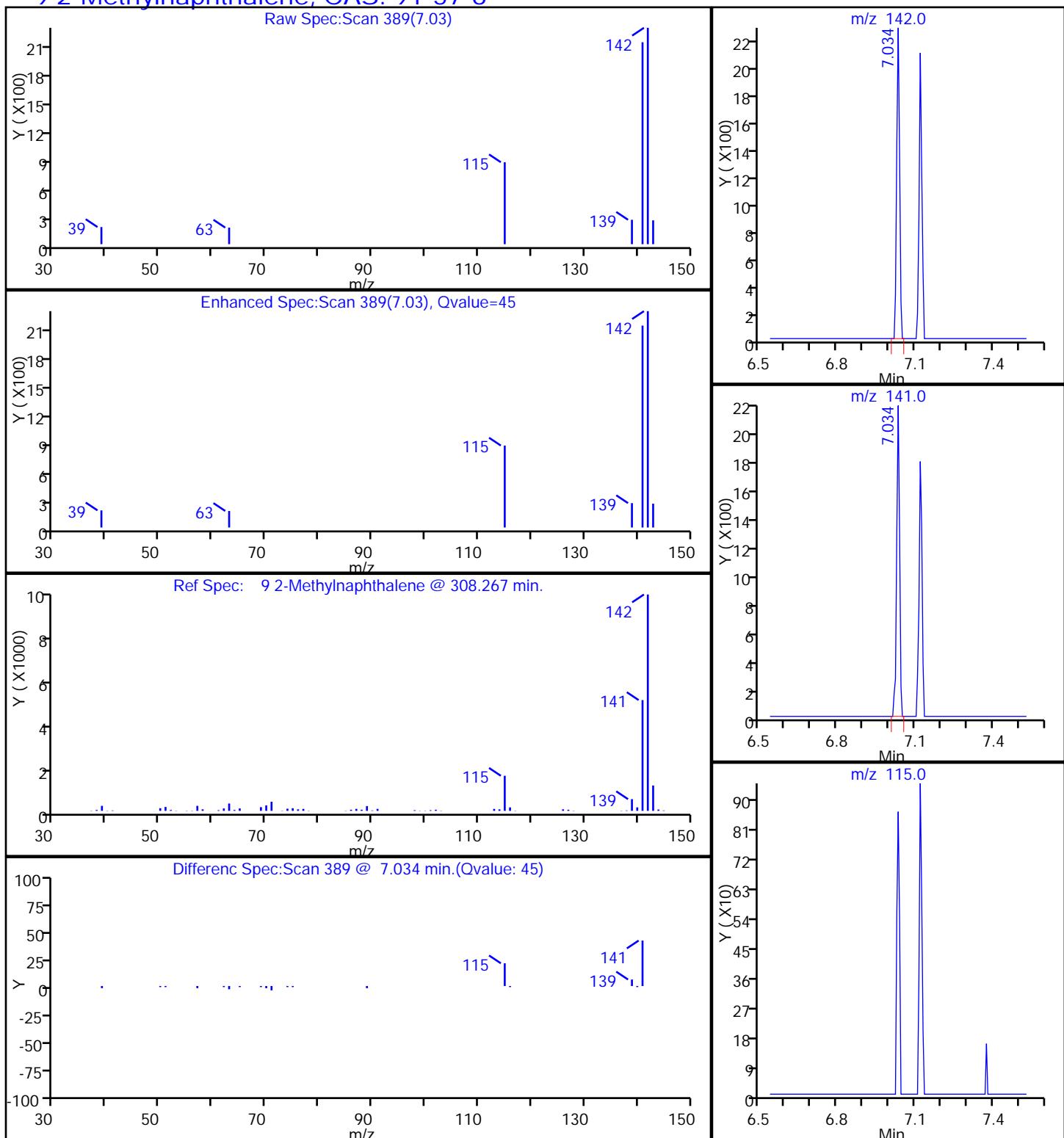
Column: Restek RXi-5Sil MS ( 0.25 mm)

Detector: MS SCAN

**10 1-Methylnaphthalene, CAS: 90-12-0**

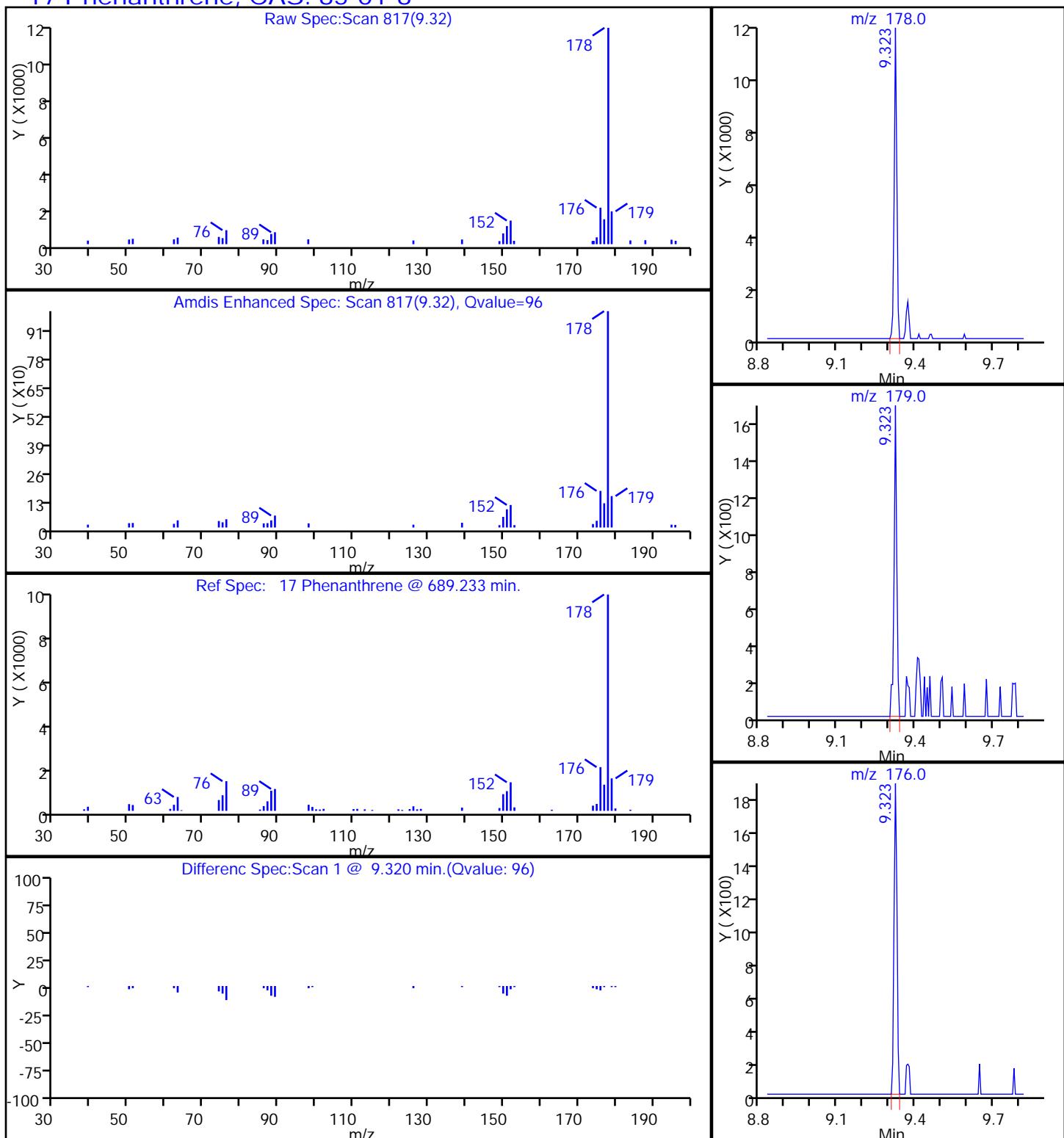
TestAmerica Savannah  
 Data File: \\ChromNA\\Savannah\\ChromData\\CMSY\\20150818-22358.b\\1YF18015.D  
 Injection Date: 18-Aug-2015 18:19:30 Instrument ID: CMSY  
 Lims ID: 680-115692-A-7-A Lab Sample ID: 680-115692-7  
 Client ID: CV0511TT-CS-12  
 Operator ID: LIMS import ALS Bottle#: 15 Worklist Smp#: 15  
 Injection Vol: 2.0 ul Dil. Factor: 10.0000  
 Method: 8270D\_LLPAH\_MSY Limit Group: 8270D\_LL\_PAH  
 Column: Restek RXi-5Sil MS ( 0.25 mm) Detector: MS SCAN

### 9 2-Methylnaphthalene, CAS: 91-57-6



TestAmerica Savannah  
 Data File: \\ChromNA\\Savannah\\ChromData\\CMSY\\20150818-22358.b\\1YF18015.D  
 Injection Date: 18-Aug-2015 18:19:30 Instrument ID: CMSY  
 Lims ID: 680-115692-A-7-A Lab Sample ID: 680-115692-7  
 Client ID: CV0511TT-CS-12  
 Operator ID: LIMS import ALS Bottle#: 15 Worklist Smp#: 15  
 Injection Vol: 2.0 ul Dil. Factor: 10.0000  
 Method: 8270D\_LLPAH\_MSY Limit Group: 8270D\_LL\_PAH  
 Column: Restek RXi-5Sil MS ( 0.25 mm) Detector MS SCAN

### 17 Phenanthrene, CAS: 85-01-8



TestAmerica Savannah

Data File: \\ChromNA\\Savannah\\ChromData\\CMSY\\20150818-22358.b\\1YF18015.D

Injection Date: 18-Aug-2015 18:19:30

Instrument ID: CMSY

Lims ID: 680-115692-A-7-A

Lab Sample ID: 680-115692-7

Client ID: CV0511TT-CS-12

Operator ID: LIMS import

ALS Bottle#: 15 Worklist Smp#: 15

Injection Vol: 2.0 ul

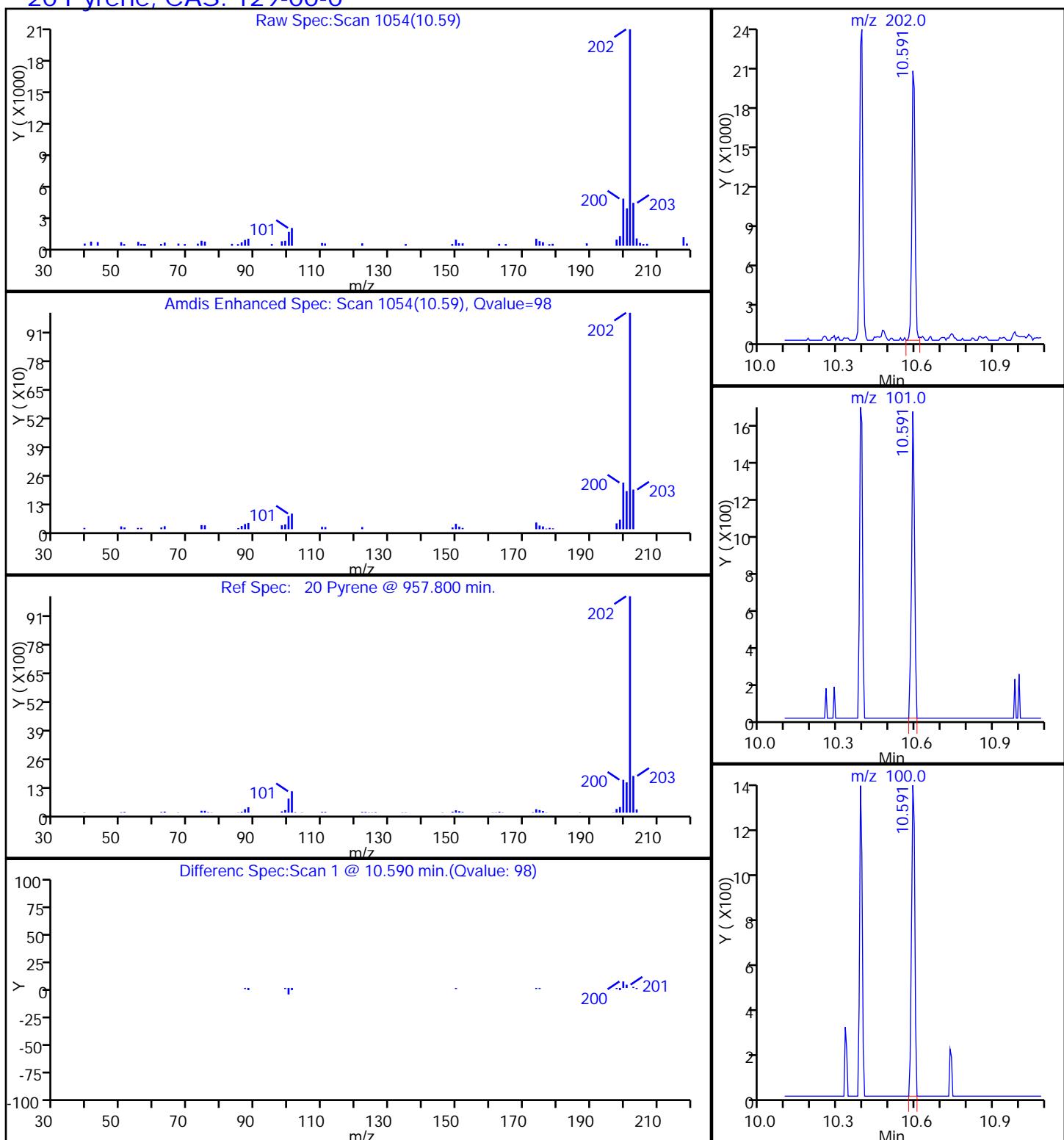
Dil. Factor: 10.0000

Method: 8270D\_LLPAH\_MSY

Limit Group: 8270D\_LL\_PAH

Column: Restek RXi-5Sil MS ( 0.25 mm)

Detector MS SCAN

**20 Pyrene, CAS: 129-00-0**

FORM I  
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Savannah Job No.: 680-115692-1  
 SDG No.: 680-115692-01  
 Client Sample ID: CV0511TT-CS-18 Lab Sample ID: 680-115692-8  
 Matrix: Solid Lab File ID: 1YF18016.D  
 Analysis Method: 8270D\_LL\_PAH Date Collected: 08/10/2015 14:55  
 Extract. Method: 3546 Date Extracted: 08/17/2015 10:44  
 Sample wt/vol: 29.93(g) Date Analyzed: 08/18/2015 18:48  
 Con. Extract Vol.: 1(mL) Dilution Factor: 10  
 Injection Volume: 2(uL) Level: (low/med) Low  
 % Moisture: 17.1 GPC Cleanup: (Y/N) N  
 Analysis Batch No.: 396712 Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	81	U	81	40
208-96-8	Acenaphthylene	81	U	81	40
120-12-7	Anthracene	71	J	81	40
56-55-3	Benzo[a]anthracene	240		81	40
50-32-8	Benzo[a]pyrene	220		81	15
205-99-2	Benzo[b]fluoranthene	320		81	40
191-24-2	Benzo[g,h,i]perylene	99		81	40
207-08-9	Benzo[k]fluoranthene	150		81	24
218-01-9	Chrysene	240		81	40
53-70-3	Dibenz(a,h)anthracene	81	U	81	40
206-44-0	Fluoranthene	490		81	40
86-73-7	Fluorene	81	U	81	40
193-39-5	Indeno[1,2,3-cd]pyrene	70	J	81	40
90-12-0	1-Methylnaphthalene	81	U	81	37
91-57-6	2-Methylnaphthalene	81	U	81	40
91-20-3	Naphthalene	81	U	81	40
85-01-8	Phenanthrene	300		81	29
129-00-0	Pyrene	370		81	40

CAS NO.	SURROGATE	%REC	Q	LIMITS
84-15-1	o-Terphenyl	0	D	36-131

TestAmerica Savannah  
Target Compound Quantitation Report

Data File: \\ChromNA\Savannah\ChromData\CMSY\20150818-22358.b\1YF18016.D  
 Lims ID: 680-115692-A-8-A Lab Sample ID: 680-115692-8  
 Client ID: CV0511TT-CS-18  
 Sample Type: Client  
 Inject. Date: 18-Aug-2015 18:48:30 ALS Bottle#: 16 Worklist Smp#: 16  
 Injection Vol: 2.0 ul Dil. Factor: 10.0000  
 Sample Info: 680-115692-A-8-A  
 Misc. Info.: 680-0022358-016  
 Operator ID: LIMS import Instrument ID: CMSY  
 Method: \\ChromNA\Savannah\ChromData\CMSY\20150818-22358.b\8270D\_LLPAH\_MSY.m  
 Limit Group: 8270D\_LL\_PAH  
 Last Update: 19-Aug-2015 11:22:28 Calib Date: 12-Aug-2015 16:37:30  
 Integrator: RTE ID Type: Deconvolution ID  
 Quant Method: Internal Standard Quant By: Initial Calibration  
 Last ICAL File: \\ChromNA\Savannah\ChromData\CMSY\20150812-22174.b\1YF12008.D  
 Column 1 : Restek RXi-5Sil MS ( 0.25 mm) Det: MS SCAN  
 Process Host: XAWRK003

First Level Reviewer: millsj Date: 19-Aug-2015 11:09:44

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/ml	Flags
* 1 Naphthalene-d8	136	6.366	6.366	0.000	99	47598	2.00	
* 2 Acenaphthene-d10	164	7.970	7.975	-0.005	95	25537	2.00	
* 3 Phenanthrene-d10	188	9.302	9.307	-0.005	97	56007	2.00	
* 4 Chrysene-d12	240	11.762	11.773	-0.011	98	83162	2.00	
* 5 Perylene-d12	264	13.527	13.538	-0.011	99	76179	2.00	
14 Acenaphthene	153	8.002	8.002	0.000	89	991	0.0649	
17 Phenanthrene	178	9.323	9.329	-0.006	96	20024	0.7481	
18 Anthracene	178	9.372	9.371	0.001	71	4067	0.1770	
19 Fluoranthene	202	10.393	10.398	-0.005	98	39505	1.23	
20 Pyrene	202	10.596	10.602	-0.006	98	33152	0.9122	
21 Benzo[a]anthracene	228	11.752	11.762	-0.010	96	23880	0.5967	M
22 Chrysene	228	11.789	11.805	-0.016	99	22796	0.5959	M
23 Benzo[b]fluoranthene	252	13.025	13.041	-0.016	97	29804	0.8004	
24 Benzo[k]fluoranthene	252	13.057	13.078	-0.021	1	13169	0.3624	
25 Benzo[a]pyrene	252	13.453	13.469	-0.016	98	18675	0.5394	
26 Indeno[1,2,3-cd]pyrene	276	15.014	15.025	-0.011	95	10658	0.1743	
28 Benzo[g,h,i]perylene	276	15.389	15.399	-0.010	95	9933	0.2467	

### QC Flag Legend

Review Flags

M - Manually Integrated

### Reagents:

SM-LLISTD\_00128

Amount Added: 10.00

Units: uL

Run Reagent

Report Date: 19-Aug-2015 11:22:46

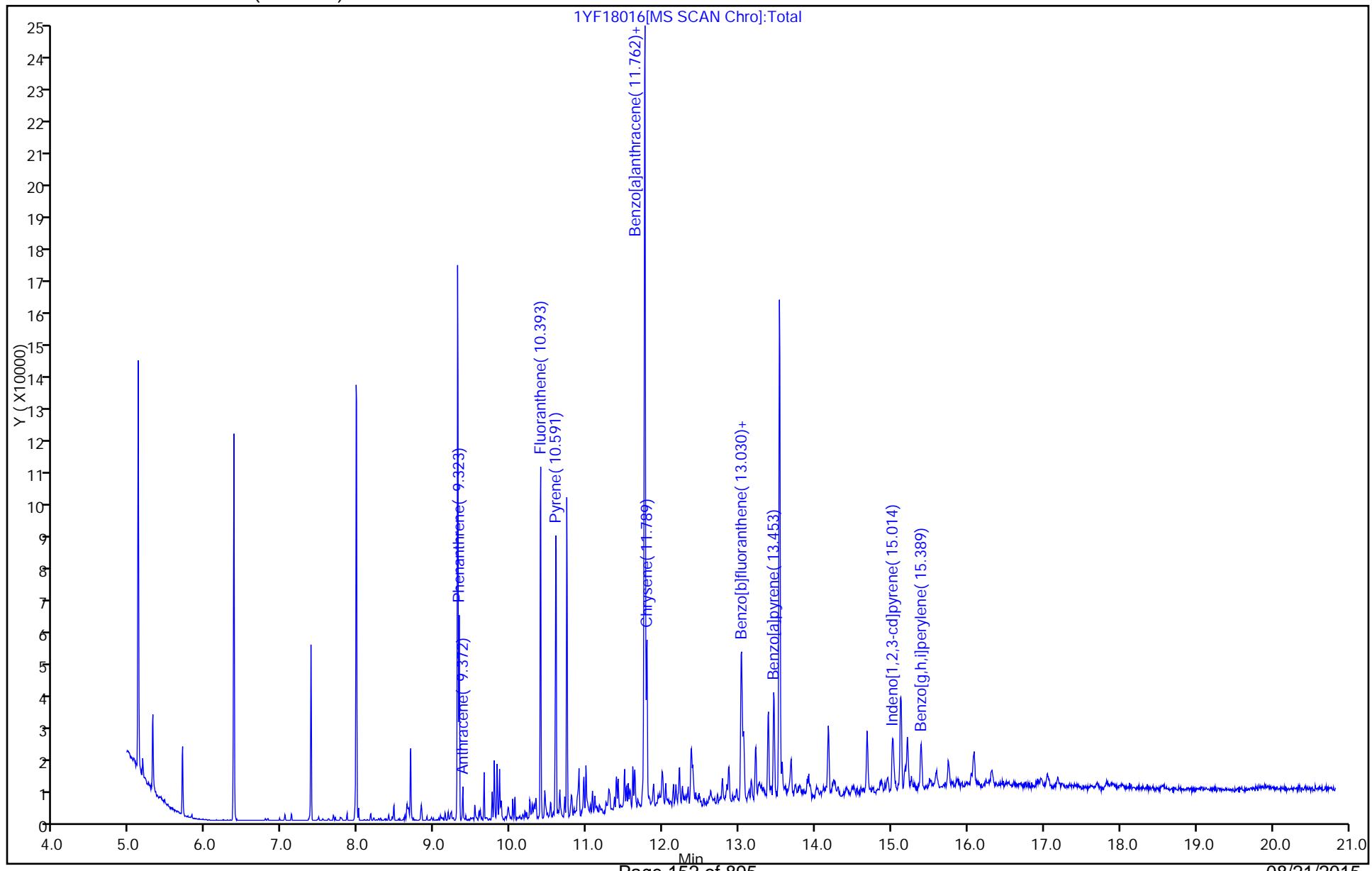
Chrom Revision: 2.2 23-Jul-2015 08:26:08

## TestAmerica Savannah

Data File: \\ChromNA\\Savannah\\ChromData\\CMSY\\20150818-22358.b\\1YF18016.D  
Injection Date: 18-Aug-2015 18:48:30 Instrument ID: CMSY  
Lims ID: 680-115692-A-8-A Lab Sample ID: 680-115692-8  
Client ID: CV0511TT-CS-18  
Injection Vol: 2.0 ul Dil. Factor: 10.0000  
Method: 8270D\_LLPAH\_MSY Limit Group: 8270D\_LL\_PAH  
Column: Restek RXi-5Sil MS ( 0.25 mm)

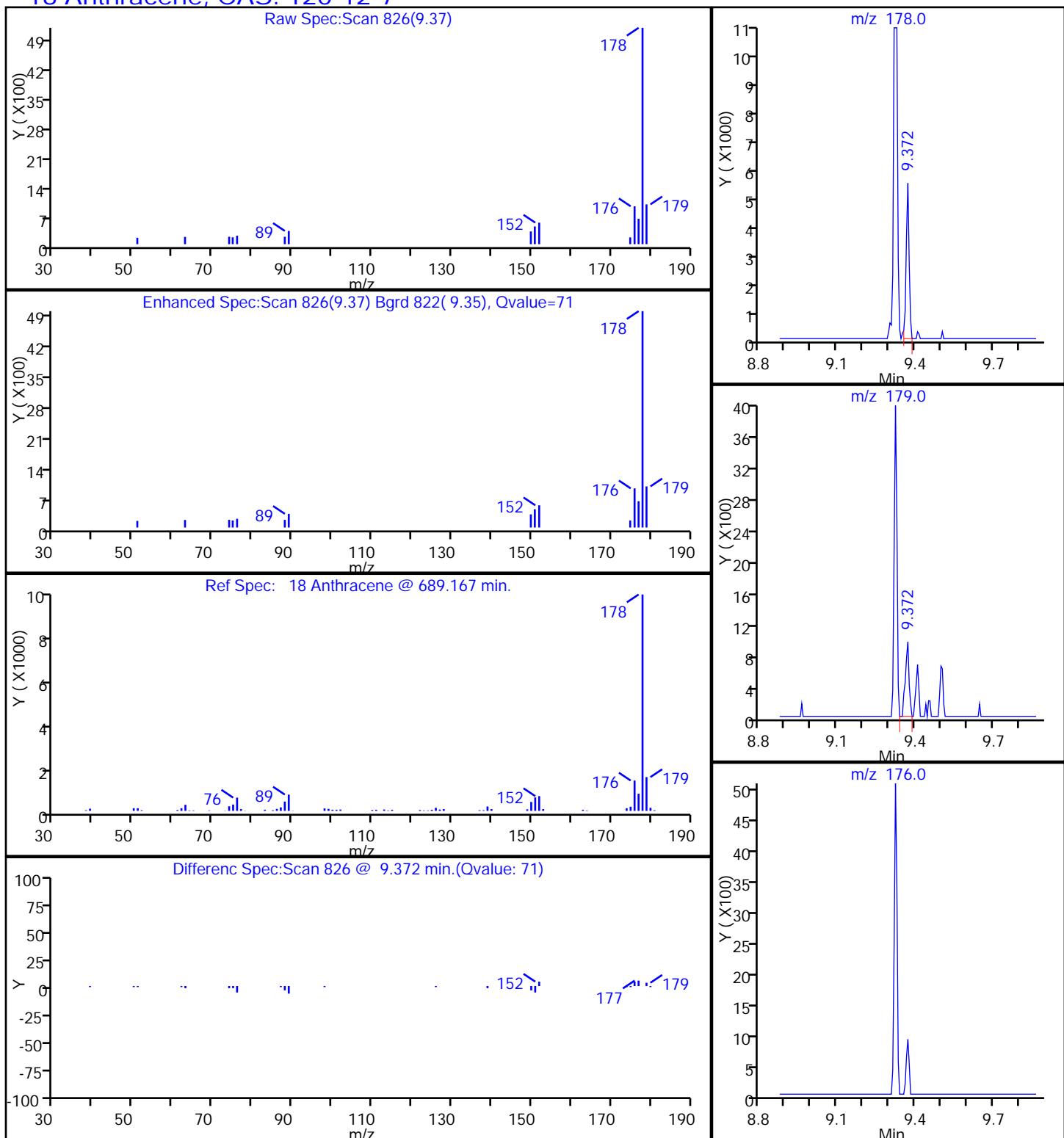
Operator ID: LIMS import  
Worklist Smp#: 16

ALS Bottle#: 16



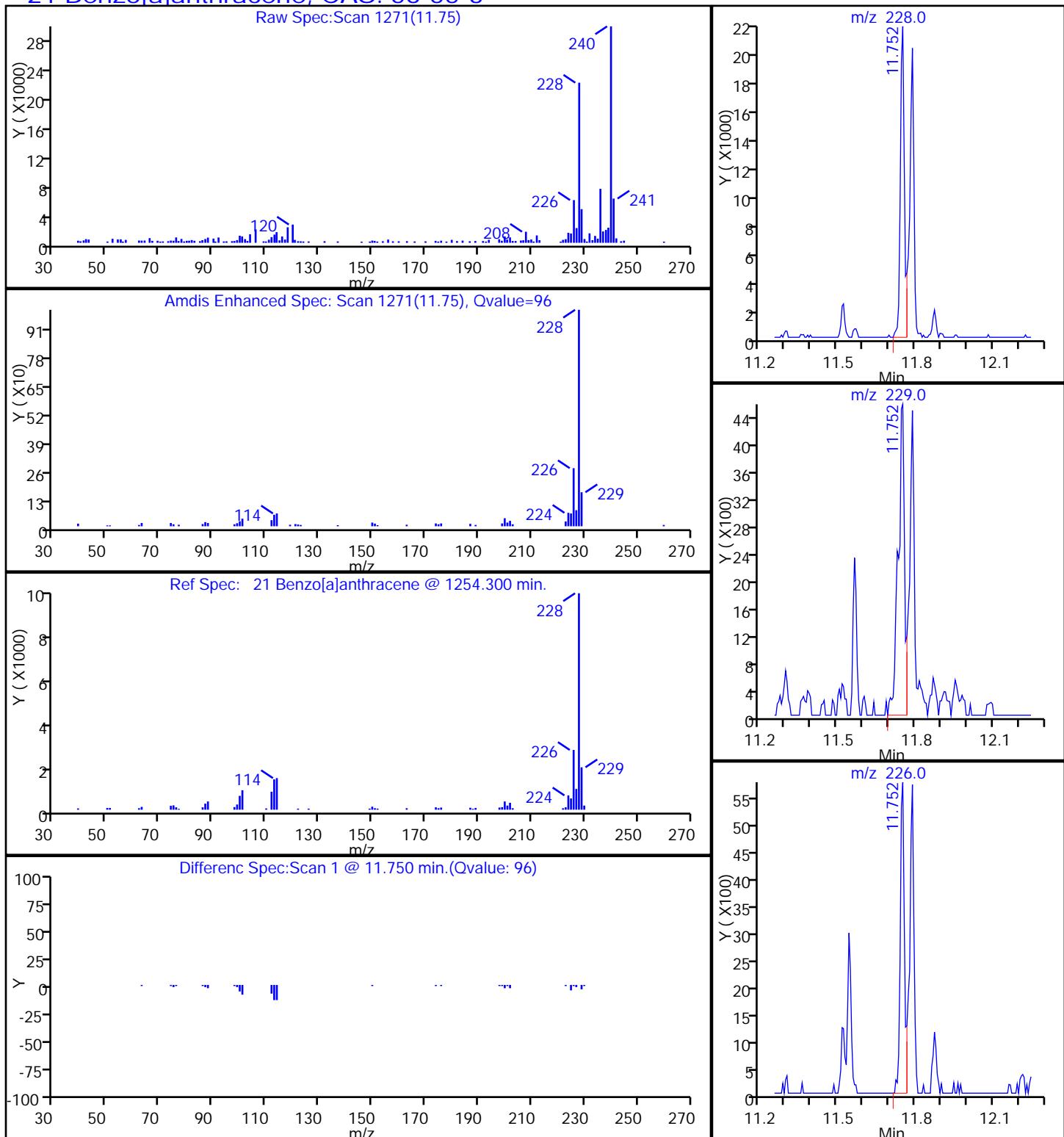
TestAmerica Savannah  
 Data File: \\ChromNA\\Savannah\\ChromData\\CMSY\\20150818-22358.b\\1YF18016.D  
 Injection Date: 18-Aug-2015 18:48:30 Instrument ID: CMSY  
 Lims ID: 680-115692-A-8-A Lab Sample ID: 680-115692-8  
 Client ID: CV0511TT-CS-18  
 Operator ID: LIMS import ALS Bottle#: 16 Worklist Smp#: 16  
 Injection Vol: 2.0 ul Dil. Factor: 10.0000  
 Method: 8270D\_LLPAH\_MSY Limit Group: 8270D\_LL\_PAH  
 Column: Restek RXi-5Sil MS ( 0.25 mm) Detector MS SCAN

### 18 Anthracene, CAS: 120-12-7



TestAmerica Savannah  
 Data File: \\ChromNA\\Savannah\\ChromData\\CMSY\\20150818-22358.b\\1YF18016.D  
 Injection Date: 18-Aug-2015 18:48:30 Instrument ID: CMSY  
 Lims ID: 680-115692-A-8-A Lab Sample ID: 680-115692-8  
 Client ID: CV0511TT-CS-18  
 Operator ID: LIMS import ALS Bottle#: 16 Worklist Smp#: 16  
 Injection Vol: 2.0 ul Dil. Factor: 10.0000  
 Method: 8270D\_LLPAH\_MSY Limit Group: 8270D\_LL\_PAH  
 Column: Restek RXi-5Sil MS ( 0.25 mm) Detector MS SCAN

### 21 Benzo[a]anthracene, CAS: 56-55-3



TestAmerica Savannah

Data File: \\ChromNA\\Savannah\\ChromData\CMSY\\20150818-22358.b\\1YF18016.D

Injection Date: 18-Aug-2015 18:48:30

Instrument ID: CMSY

Lims ID: 680-115692-A-8-A

Lab Sample ID: 680-115692-8

Client ID: CV0511TT-CS-18

Operator ID: LIMS import

ALS Bottle#: 16 Worklist Smp#: 16

Injection Vol: 2.0 ul

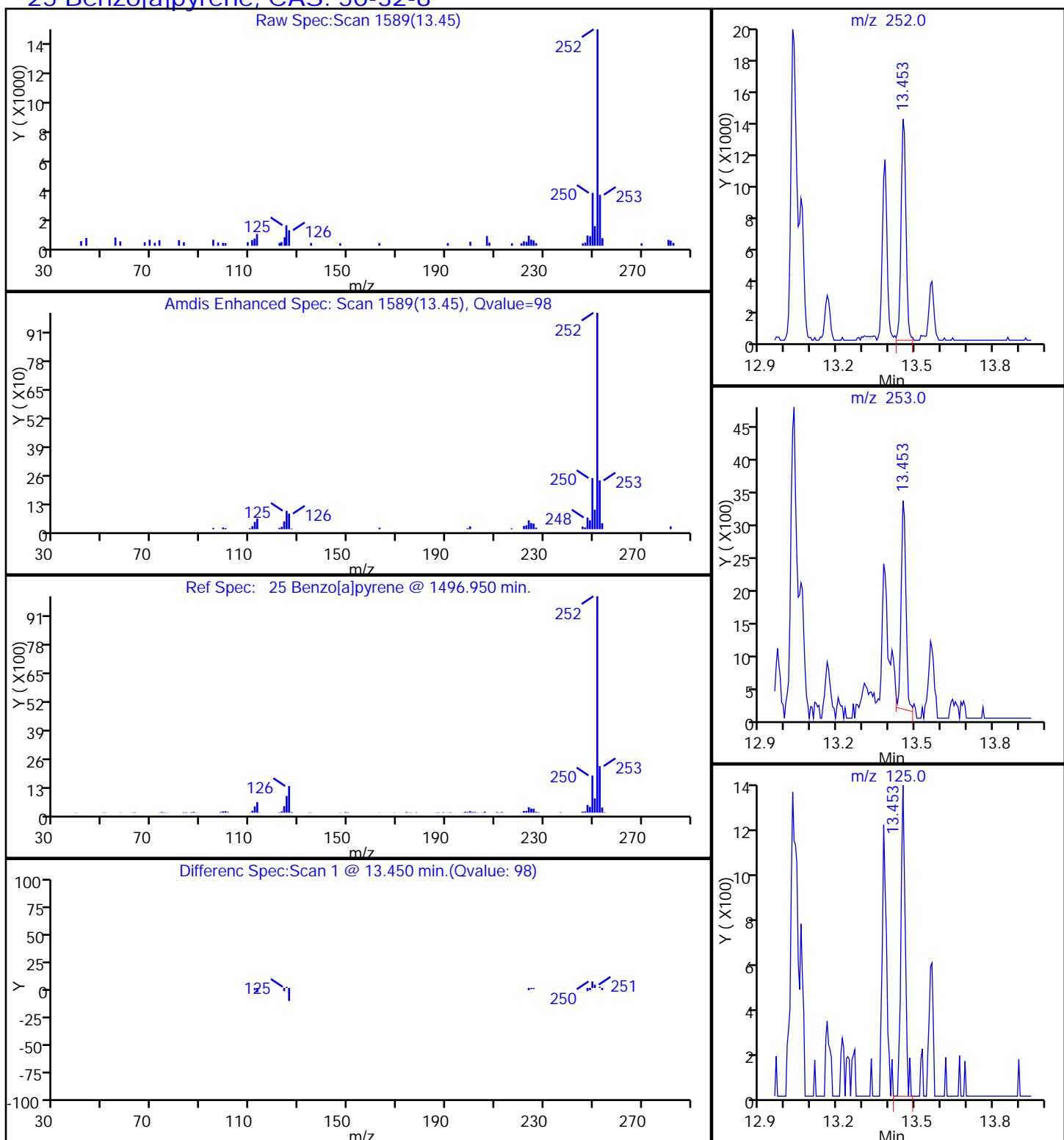
Dil. Factor: 10.0000

Method: 8270D\_LLPAH\_MSY

Limit Group: 8270D\_LL\_PAH

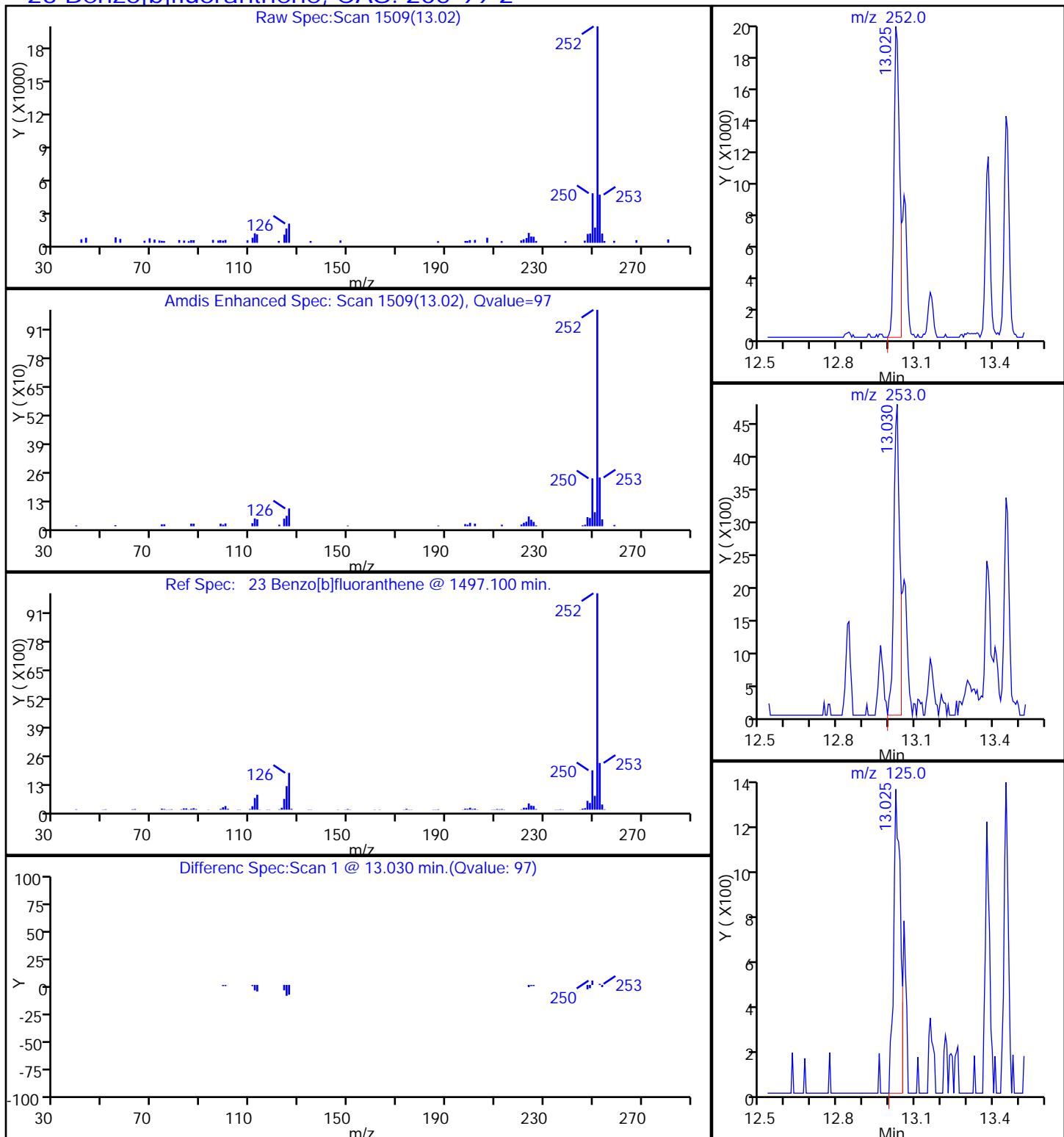
Column: Restek RXi-5Sil MS ( 0.25 mm)

Detector: MS SCAN

**25 Benzo[a]pyrene, CAS: 50-32-8**

TestAmerica Savannah  
 Data File: \\ChromNA\\Savannah\\ChromData\\CMSY\\20150818-22358.b\\1YF18016.D  
 Injection Date: 18-Aug-2015 18:48:30 Instrument ID: CMSY  
 Lims ID: 680-115692-A-8-A Lab Sample ID: 680-115692-8  
 Client ID: CV0511TT-CS-18  
 Operator ID: LIMS import ALS Bottle#: 16 Worklist Smp#: 16  
 Injection Vol: 2.0 ul Dil. Factor: 10.0000  
 Method: 8270D\_LLPAH\_MSY Limit Group: 8270D\_LL\_PAH  
 Column: Restek RXi-5Sil MS ( 0.25 mm) Detector MS SCAN

### 23 Benzo[b]fluoranthene, CAS: 205-99-2



TestAmerica Savannah

Data File: \\ChromNA\\Savannah\\ChromData\CMSY\\20150818-22358.b\\1YF18016.D

Injection Date: 18-Aug-2015 18:48:30

Instrument ID: CMSY

Lims ID: 680-115692-A-8-A

Lab Sample ID: 680-115692-8

Client ID: CV0511TT-CS-18

Operator ID: LIMS import

ALS Bottle#: 16 Worklist Smp#: 16

Injection Vol: 2.0 ul

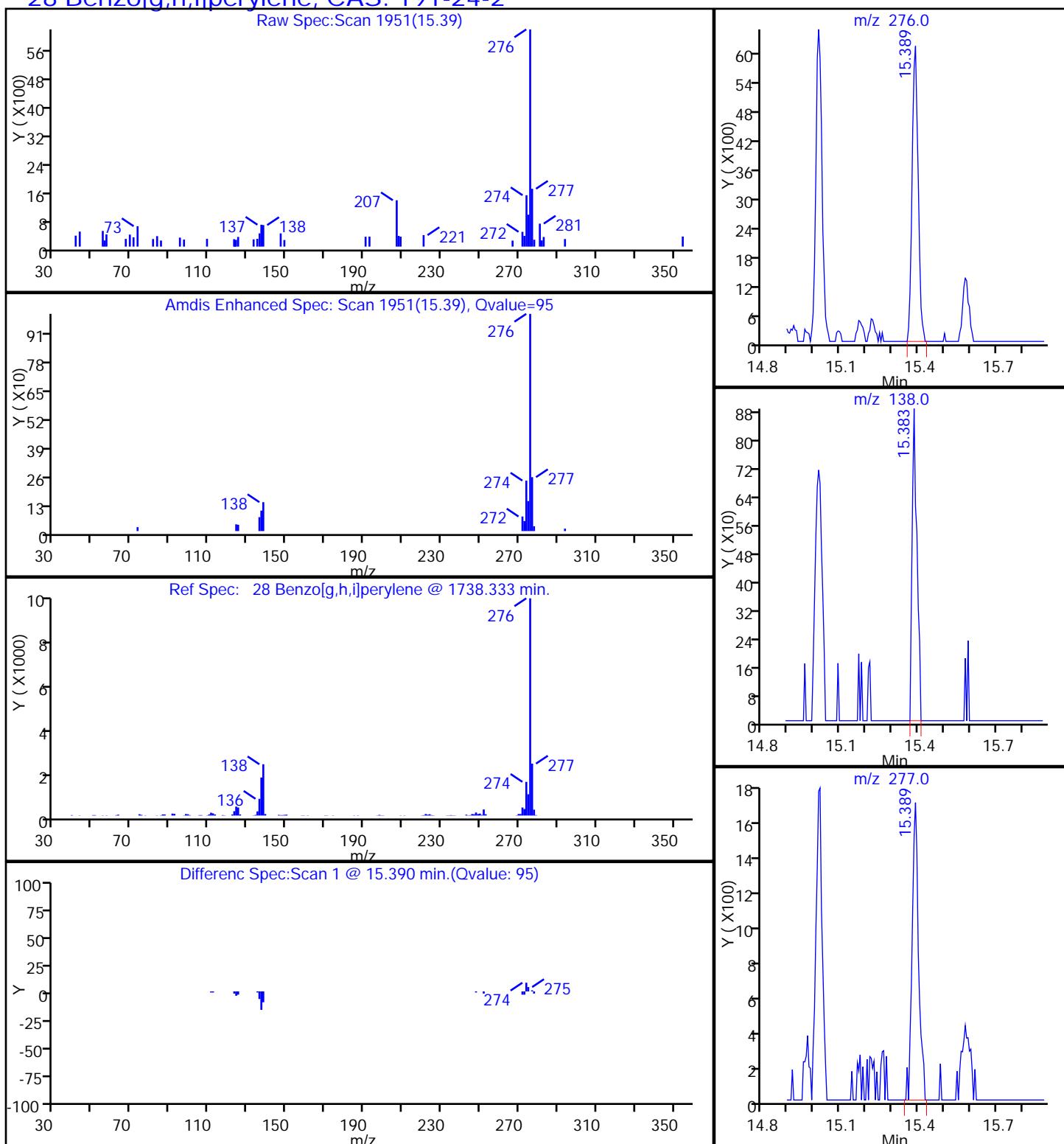
Dil. Factor: 10.0000

Method: 8270D\_LLPAH\_MSY

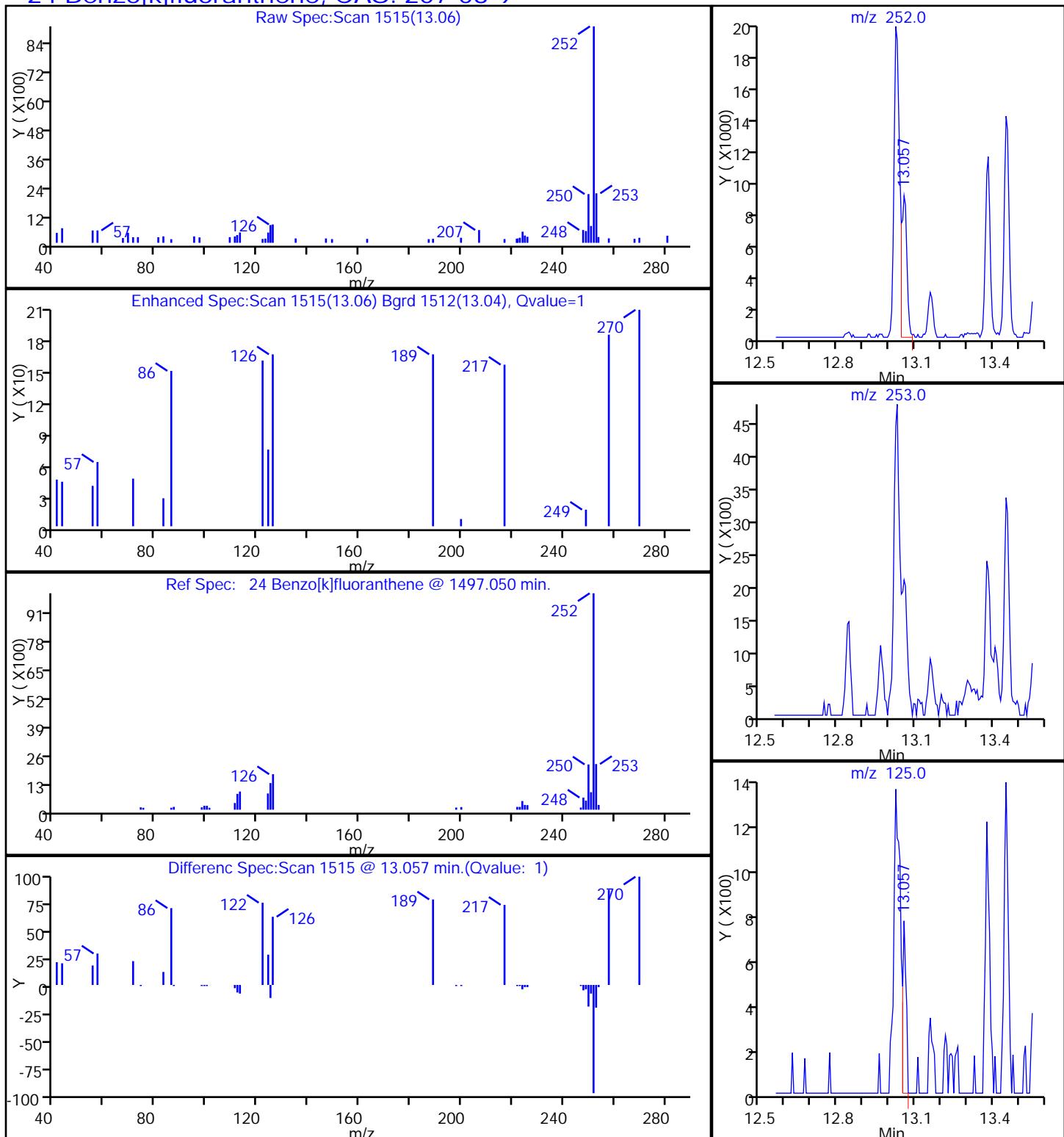
Limit Group: 8270D\_LL\_PAH

Column: Restek RXi-5Sil MS ( 0.25 mm)

Detector MS SCAN

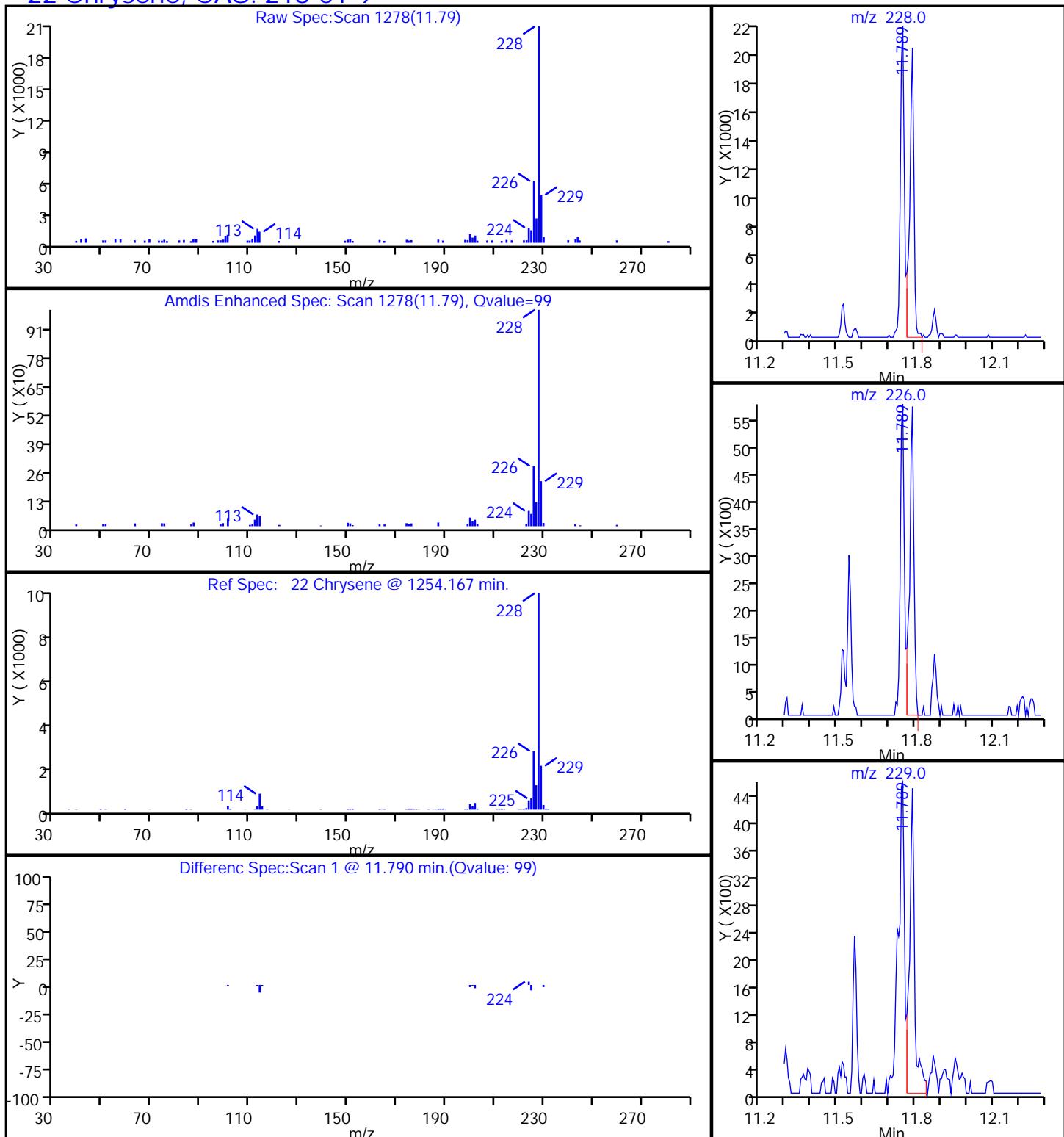
**28 Benzo[g,h,i]perylene, CAS: 191-24-2**

TestAmerica Savannah  
 Data File: \\ChromNA\\Savannah\\ChromData\\CMSY\\20150818-22358.b\\1YF18016.D  
 Injection Date: 18-Aug-2015 18:48:30 Instrument ID: CMSY  
 Lims ID: 680-115692-A-8-A Lab Sample ID: 680-115692-8  
 Client ID: CV0511TT-CS-18  
 Operator ID: LIMS import ALS Bottle#: 16 Worklist Smp#: 16  
 Injection Vol: 2.0 ul Dil. Factor: 10.0000  
 Method: 8270D\_LLPAH\_MSY Limit Group: 8270D\_LL\_PAH  
 Column: Restek RXi-5Sil MS ( 0.25 mm) Detector MS SCAN

**24 Benzo[k]fluoranthene, CAS: 207-08-9**

TestAmerica Savannah  
 Data File: \\ChromNA\\Savannah\\ChromData\\CMSY\\20150818-22358.b\\1YF18016.D  
 Injection Date: 18-Aug-2015 18:48:30 Instrument ID: CMSY  
 Lims ID: 680-115692-A-8-A Lab Sample ID: 680-115692-8  
 Client ID: CV0511TT-CS-18  
 Operator ID: LIMS import ALS Bottle#: 16 Worklist Smp#: 16  
 Injection Vol: 2.0 ul Dil. Factor: 10.0000  
 Method: 8270D\_LLPAH\_MSY Limit Group: 8270D\_LL\_PAH  
 Column: Restek RXi-5Sil MS ( 0.25 mm) Detector MS SCAN

### 22 Chrysene, CAS: 218-01-9



TestAmerica Savannah

Data File: \\ChromNA\\Savannah\\ChromData\CMSY\\20150818-22358.b\\1YF18016.D

Injection Date: 18-Aug-2015 18:48:30

Instrument ID: CMSY

Lims ID: 680-115692-A-8-A

Lab Sample ID: 680-115692-8

Client ID: CV0511TT-CS-18

Operator ID: LIMS import

ALS Bottle#: 16 Worklist Smp#: 16

Injection Vol: 2.0 ul

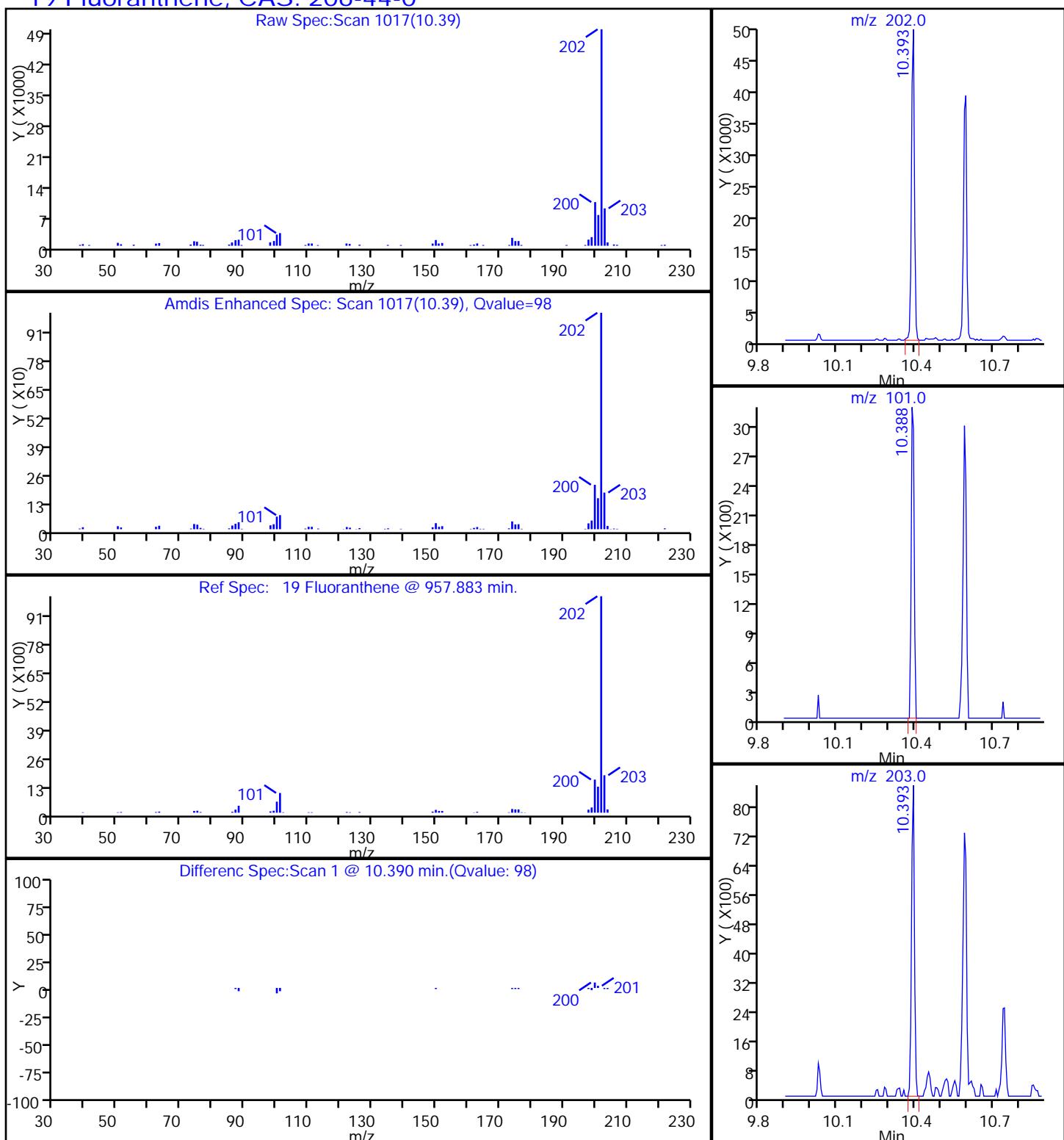
Dil. Factor: 10.0000

Method: 8270D\_LLPAH\_MSY

Limit Group: 8270D\_LL\_PAH

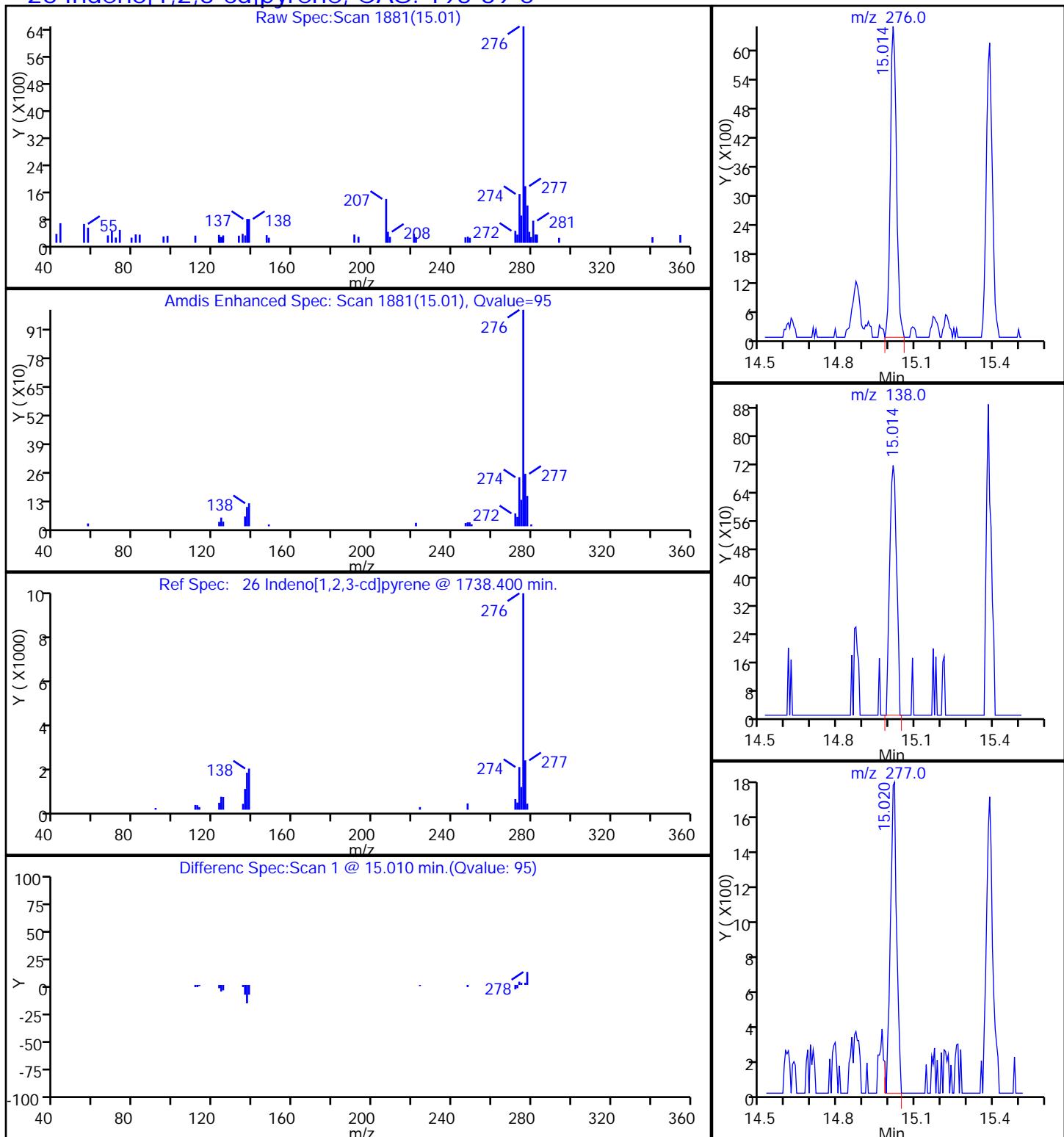
Column: Restek RXi-5Sil MS ( 0.25 mm)

Detector: MS SCAN

**19 Fluoranthene, CAS: 206-44-0**

TestAmerica Savannah  
 Data File: \\ChromNA\\Savannah\\ChromData\CMSY\\20150818-22358.b\\1YF18016.D  
 Injection Date: 18-Aug-2015 18:48:30 Instrument ID: CMSY  
 Lims ID: 680-115692-A-8-A Lab Sample ID: 680-115692-8  
 Client ID: CV0511TT-CS-18  
 Operator ID: LIMS import ALS Bottle#: 16 Worklist Smp#: 16  
 Injection Vol: 2.0 ul Dil. Factor: 10.0000  
 Method: 8270D\_LLPAH\_MSY Limit Group: 8270D\_LL\_PAH  
 Column: Restek RXi-5Sil MS ( 0.25 mm) Detector MS SCAN

## 26 Indeno[1,2,3-cd]pyrene, CAS: 193-39-5



TestAmerica Savannah

Data File: \\ChromNA\\Savannah\\ChromData\CMSY\\20150818-22358.b\\1YF18016.D

Injection Date: 18-Aug-2015 18:48:30

Instrument ID: CMSY

Lims ID: 680-115692-A-8-A

Lab Sample ID: 680-115692-8

Client ID: CV0511TT-CS-18

Operator ID: LIMS import

ALS Bottle#: 16 Worklist Smp#: 16

Injection Vol: 2.0 ul

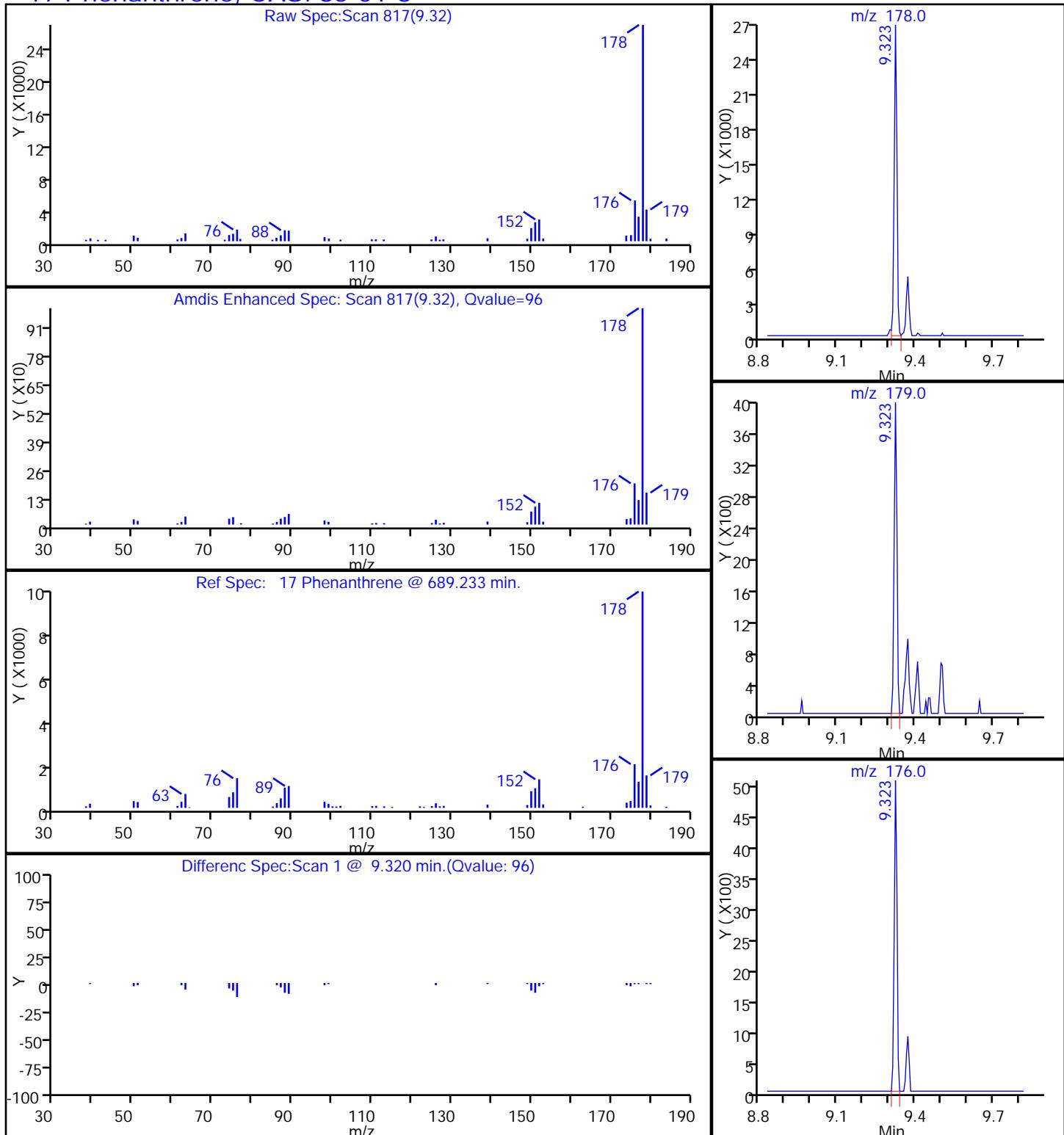
Dil. Factor: 10.0000

Method: 8270D\_LLPAH\_MSY

Limit Group: 8270D\_LL\_PAH

Column: Restek RXi-5Sil MS ( 0.25 mm)

Detector: MS SCAN

**17 Phenanthrene, CAS: 85-01-8**

TestAmerica Savannah

Data File: \\ChromNA\\Savannah\\ChromData\\CMSY\\20150818-22358.b\\1YF18016.D

Injection Date: 18-Aug-2015 18:48:30

Instrument ID: CMSY

Lims ID: 680-115692-A-8-A

Lab Sample ID: 680-115692-8

Client ID: CV0511TT-CS-18

Operator ID: LIMS import

ALS Bottle#: 16 Worklist Smp#: 16

Injection Vol: 2.0 ul

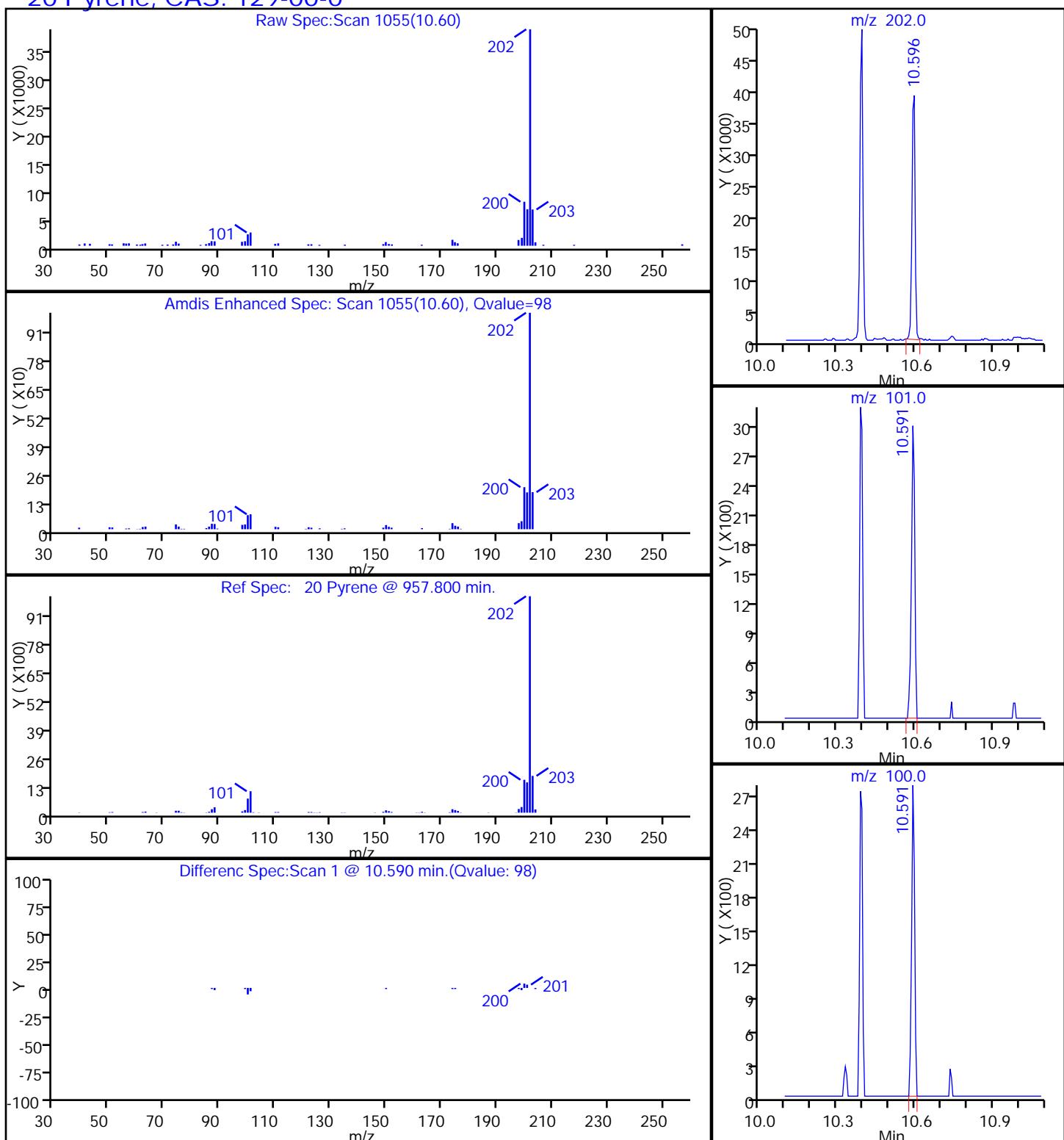
Dil. Factor: 10.0000

Method: 8270D\_LLPAH\_MSY

Limit Group: 8270D\_LL\_PAH

Column: Restek RXi-5Sil MS ( 0.25 mm)

Detector MS SCAN

**20 Pyrene, CAS: 129-00-0**

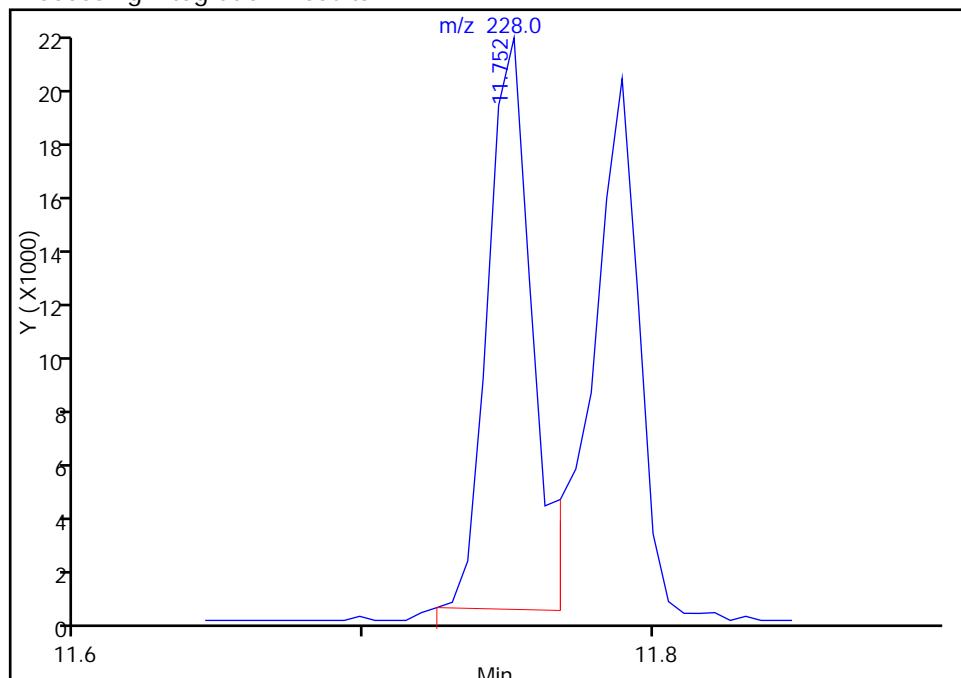
## TestAmerica Savannah

Data File: \\ChromNA\\Savannah\\ChromData\\CMSY\\20150818-22358.b\\1YF18016.D  
 Injection Date: 18-Aug-2015 18:48:30 Instrument ID: CMSY  
 Lims ID: 680-115692-A-8-A Lab Sample ID: 680-115692-8  
 Client ID: CV0511TT-CS-18  
 Operator ID: LIMS import ALS Bottle#: 16 Worklist Smp#: 16  
 Injection Vol: 2.0 ul Dil. Factor: 10.0000  
 Method: 8270D\_LLPAH\_MSY Limit Group: 8270D\_LL\_PAH  
 Column: Restek RXi-5Sil MS ( 0.25 mm) Detector: MS SCAN

## 21 Benzo[a]anthracene, CAS: 56-55-3

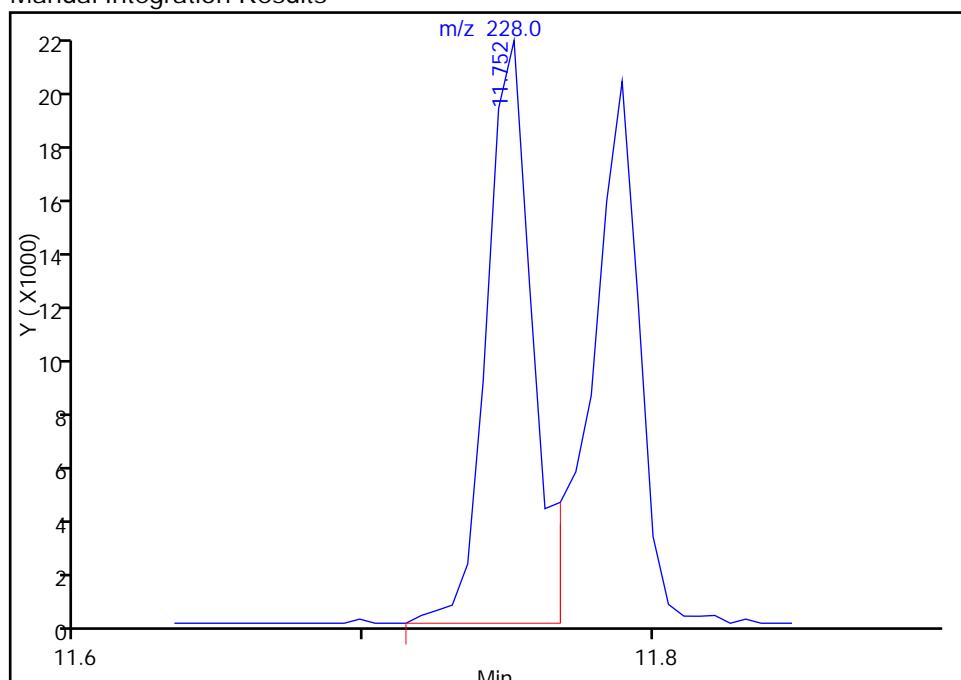
RT: 11.75  
 Area: 22570  
 Amount: 0.563954  
 Amount Units: ug/ml

## Processing Integration Results



RT: 11.75  
 Area: 23880  
 Amount: 0.596687  
 Amount Units: ug/ml

## Manual Integration Results



Reviewer: millsj, 19-Aug-2015 11:09:44

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

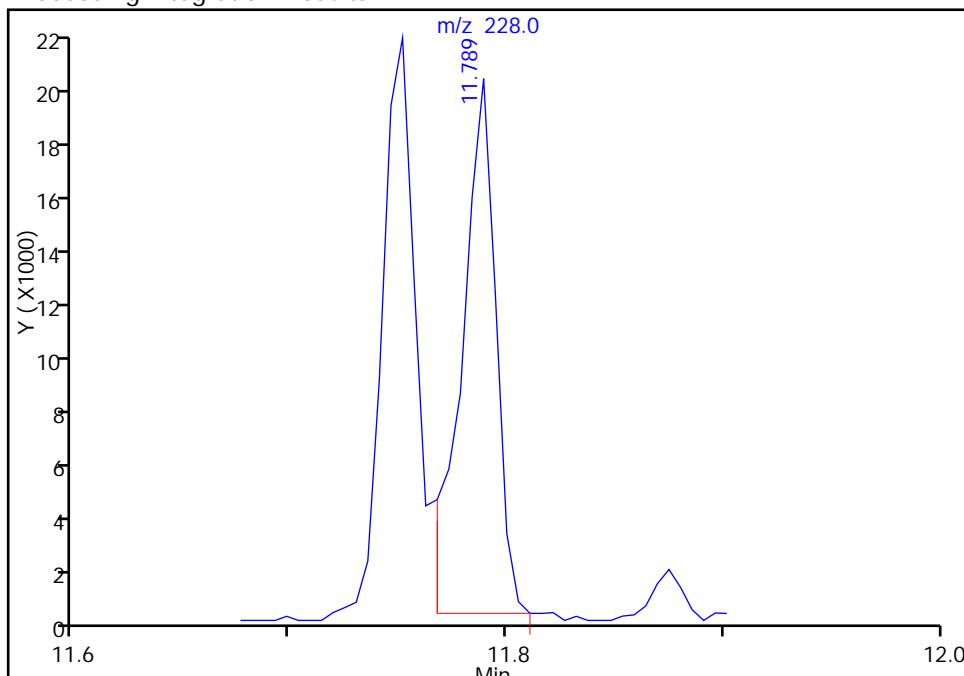
## TestAmerica Savannah

Data File: \\ChromNA\\Savannah\\ChromData\\CMSY\\20150818-22358.b\\1YF18016.D  
 Injection Date: 18-Aug-2015 18:48:30 Instrument ID: CMSY  
 Lims ID: 680-115692-A-8-A Lab Sample ID: 680-115692-8  
 Client ID: CV0511TT-CS-18  
 Operator ID: LIMS import ALS Bottle#: 16 Worklist Smp#: 16  
 Injection Vol: 2.0 ul Dil. Factor: 10.0000  
 Method: 8270D\_LLPAH\_MSY Limit Group: 8270D\_LL\_PAH  
 Column: Restek RXi-5Sil MS ( 0.25 mm) Detector: MS SCAN

## 22 Chrysene, CAS: 218-01-9

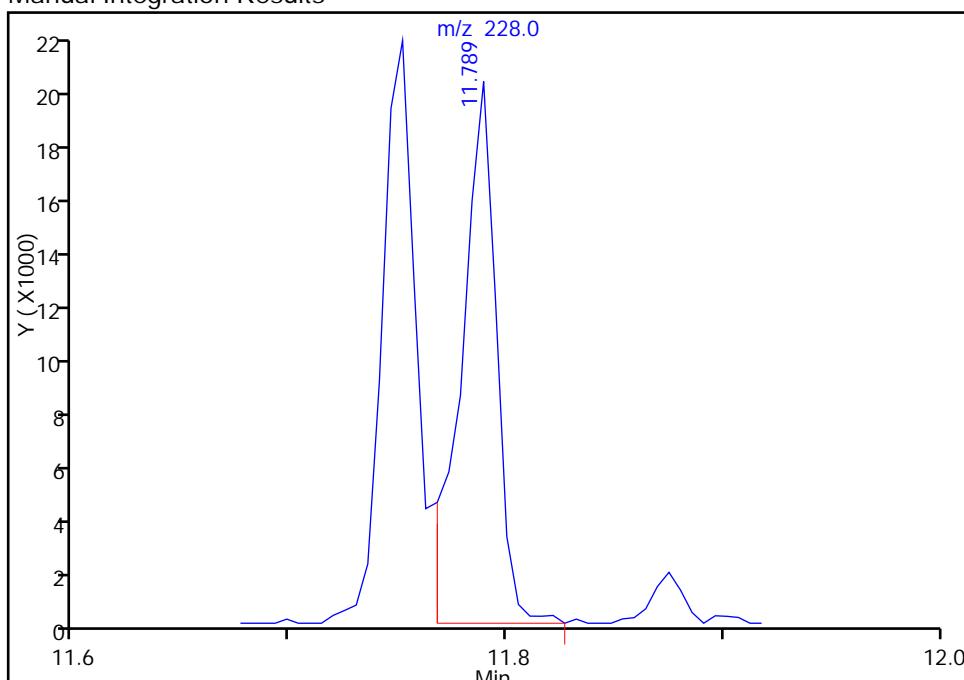
RT: 11.79  
 Area: 21861  
 Amount: 0.571443  
 Amount Units: ug/ml

## Processing Integration Results



RT: 11.79  
 Area: 22796  
 Amount: 0.595884  
 Amount Units: ug/ml

## Manual Integration Results



Reviewer: millsj, 19-Aug-2015 11:09:44

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

FORM I  
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Savannah Job No.: 680-115692-1  
 SDG No.: 680-115692-01  
 Client Sample ID: CV0511TT-CS-24 Lab Sample ID: 680-115692-9  
 Matrix: Solid Lab File ID: 1YF18017.D  
 Analysis Method: 8270D\_LL\_PAH Date Collected: 08/10/2015 15:00  
 Extract. Method: 3546 Date Extracted: 08/17/2015 10:44  
 Sample wt/vol: 30.06(g) Date Analyzed: 08/18/2015 19:17  
 Con. Extract Vol.: 1(mL) Dilution Factor: 10  
 Injection Volume: 2(uL) Level: (low/med) Low  
 % Moisture: 20.7 GPC Cleanup: (Y/N) N  
 Analysis Batch No.: 396712 Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	84	U	84	42
208-96-8	Acenaphthylene	84	U	84	42
120-12-7	Anthracene	55	J	84	42
56-55-3	Benzo[a]anthracene	250		84	42
50-32-8	Benzo[a]pyrene	200		84	15
205-99-2	Benzo[b]fluoranthene	390		84	42
191-24-2	Benzo[g,h,i]perylene	97		84	42
207-08-9	Benzo[k]fluoranthene	130		84	25
218-01-9	Chrysene	280		84	42
53-70-3	Dibenz(a,h)anthracene	84	U	84	42
206-44-0	Fluoranthene	520		84	42
86-73-7	Fluorene	84	U	84	42
193-39-5	Indeno[1,2,3-cd]pyrene	75	J	84	42
90-12-0	1-Methylnaphthalene	84	U	84	39
91-57-6	2-Methylnaphthalene	84	U	84	42
91-20-3	Naphthalene	47	J	84	42
85-01-8	Phenanthrene	270		84	30
129-00-0	Pyrene	380		84	42

CAS NO.	SURROGATE	%REC	Q	LIMITS
84-15-1	o-Terphenyl	0	D	36-131

TestAmerica Savannah  
Target Compound Quantitation Report

Data File: \\ChromNA\Savannah\ChromData\CMSY\20150818-22358.b\1YF18017.D  
 Lims ID: 680-115692-A-9-A Lab Sample ID: 680-115692-9  
 Client ID: CV0511TT-CS-24  
 Sample Type: Client  
 Inject. Date: 18-Aug-2015 19:17:30 ALS Bottle#: 17 Worklist Smp#: 17  
 Injection Vol: 2.0 ul Dil. Factor: 10.0000  
 Sample Info: 680-115692-A-9-A  
 Misc. Info.: 680-0022358-017  
 Operator ID: LIMS import Instrument ID: CMSY  
 Method: \\ChromNA\Savannah\ChromData\CMSY\20150818-22358.b\8270D\_LLPAH\_MSY.m  
 Limit Group: 8270D\_LL\_PAH  
 Last Update: 19-Aug-2015 11:22:28 Calib Date: 12-Aug-2015 16:37:30  
 Integrator: RTE ID Type: Deconvolution ID  
 Quant Method: Internal Standard Quant By: Initial Calibration  
 Last ICAL File: \\ChromNA\Savannah\ChromData\CMSY\20150812-22174.b\1YF12008.D  
 Column 1 : Restek RXi-5Sil MS ( 0.25 mm) Det: MS SCAN  
 Process Host: XAWRK003

First Level Reviewer: millsj Date: 19-Aug-2015 11:11:29

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/ml	Flags
* 1 Naphthalene-d8	136	6.366	6.366	0.000	99	47368	2.00	
* 2 Acenaphthene-d10	164	7.970	7.975	-0.005	96	25838	2.00	
* 3 Phenanthrene-d10	188	9.302	9.307	-0.005	98	55990	2.00	
* 4 Chrysene-d12	240	11.762	11.773	-0.011	98	82077	2.00	
* 5 Perylene-d12	264	13.527	13.538	-0.011	99	74650	2.00	
7 Naphthalene	128	6.387	6.387	0.000	35	2401	0.1123	
9 2-Methylnaphthalene	142	7.034	7.034	0.000	82	983	0.0643	
10 1-Methylnaphthalene	142	7.120	7.120	0.000	1	838	0.0618	
17 Phenanthrene	178	9.323	9.329	-0.006	97	17059	0.6375	
18 Anthracene	178	9.372	9.371	0.001	54	3014	0.1312	
19 Fluoranthene	202	10.393	10.398	-0.005	98	40042	1.25	
20 Pyrene	202	10.596	10.602	-0.006	98	32247	0.8990	
21 Benzo[a]anthracene	228	11.746	11.762	-0.016	97	23997	0.6075	M
22 Chrysene	228	11.789	11.805	-0.016	98	24775	0.6562	M
23 Benzo[b]fluoranthene	252	13.030	13.041	-0.011	96	34196	0.9372	
24 Benzo[k]fluoranthene	252	13.057	13.078	-0.021	96	11427	0.3209	
25 Benzo[a]pyrene	252	13.458	13.469	-0.011	98	16254	0.4791	
26 Indeno[1,2,3-cd]pyrene	276	15.014	15.025	-0.011	95	10842	0.1797	
27 Dibenz(a,h)anthracene	278	15.030	15.041	-0.011	40	3434	0.0829	
28 Benzo[g,h,i]perylene	276	15.389	15.399	-0.010	95	9147	0.2318	

### QC Flag Legend

Review Flags

M - Manually Integrated

### Reagents:

SM-LLISTD\_00128

Amount Added: 10.00

Units: uL

Run Reagent

Report Date: 19-Aug-2015 11:22:48

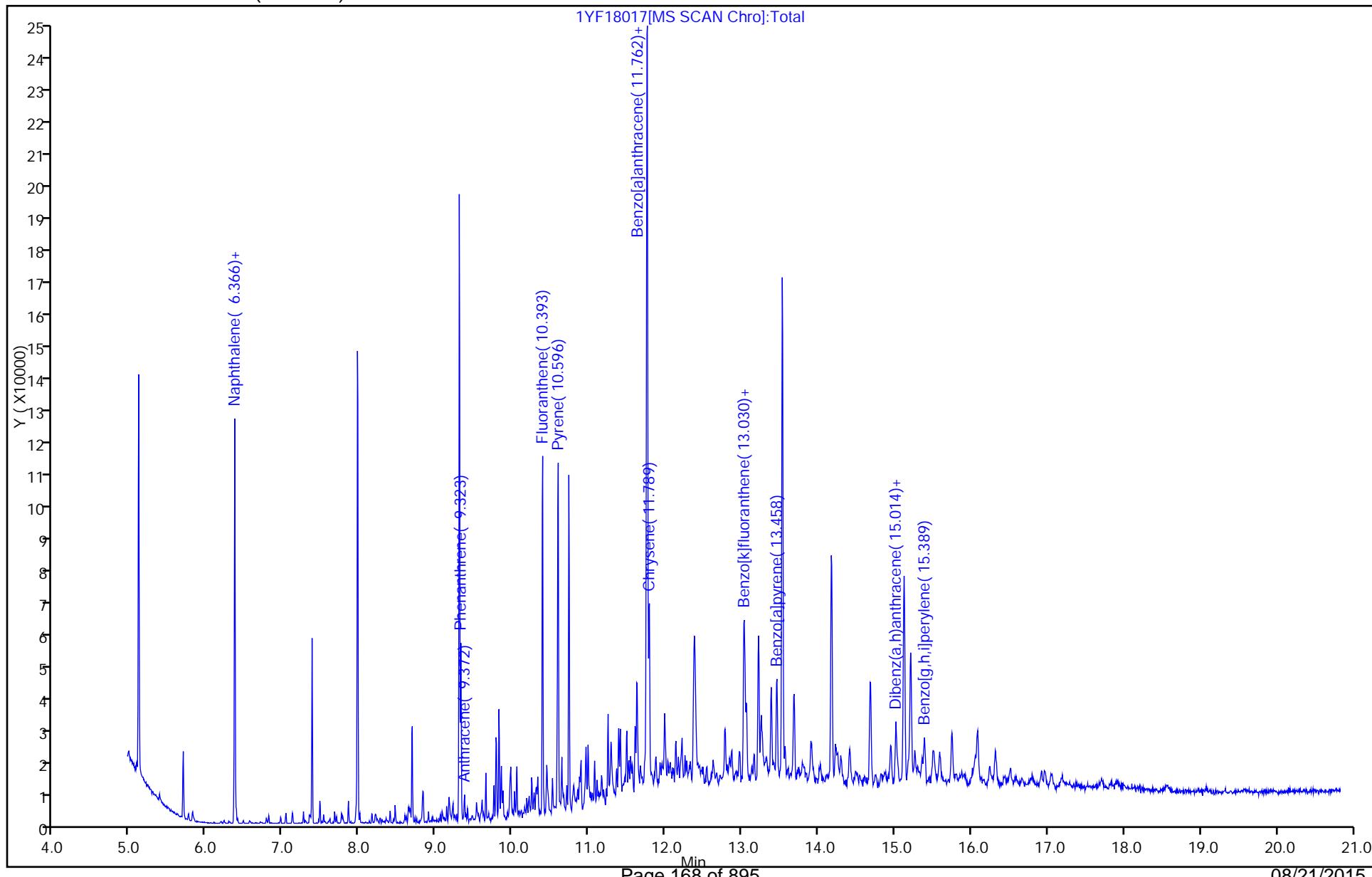
Chrom Revision: 2.2 23-Jul-2015 08:26:08

## TestAmerica Savannah

Data File: \\ChromNA\\Savannah\\ChromData\\CMSY\\20150818-22358.b\\1YF18017.D  
Injection Date: 18-Aug-2015 19:17:30 Instrument ID: CMSY  
Lims ID: 680-115692-A-9-A Lab Sample ID: 680-115692-9  
Client ID: CV0511TT-CS-24  
Injection Vol: 2.0 ul Dil. Factor: 10.0000  
Method: 8270D\_LLPAH\_MSY Limit Group: 8270D\_LL\_PAH  
Column: Restek RXi-5Sil MS ( 0.25 mm)

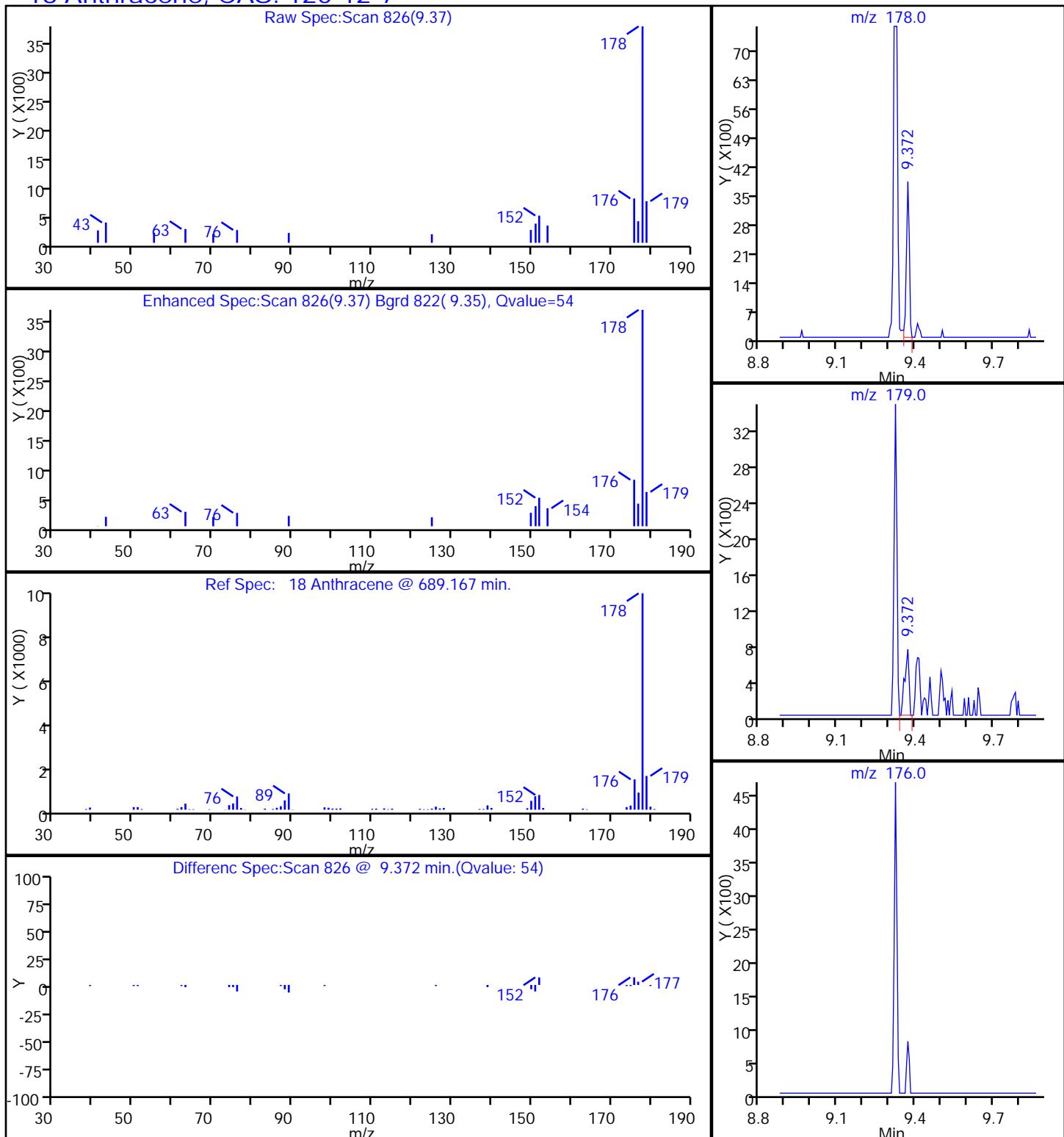
Operator ID: LIMS import  
Worklist Smp#: 17

ALS Bottle#: 17



TestAmerica Savannah  
 Data File: \\ChromNA\\Savannah\\ChromData\\CMSY\\20150818-22358.b\\1YF18017.D  
 Injection Date: 18-Aug-2015 19:17:30 Instrument ID: CMSY  
 Lims ID: 680-115692-A-9-A Lab Sample ID: 680-115692-9  
 Client ID: CV0511TT-CS-24  
 Operator ID: LIMS import ALS Bottle#: 17 Worklist Smp#: 17  
 Injection Vol: 2.0 ul Dil. Factor: 10.0000  
 Method: 8270D\_LLPAH\_MSY Limit Group: 8270D\_LL\_PAH  
 Column: Restek RXi-5Sil MS ( 0.25 mm) Detector: MS SCAN

## 18 Anthracene, CAS: 120-12-7



TestAmerica Savannah

Data File: \\ChromNA\\Savannah\\ChromData\CMSY\\20150818-22358.b\\1YF18017.D

Injection Date: 18-Aug-2015 19:17:30

Instrument ID: CMSY

Lims ID: 680-115692-A-9-A

Lab Sample ID: 680-115692-9

Client ID: CV0511TT-CS-24

Operator ID: LIMS import

ALS Bottle#: 17 Worklist Smp#: 17

Injection Vol: 2.0 ul

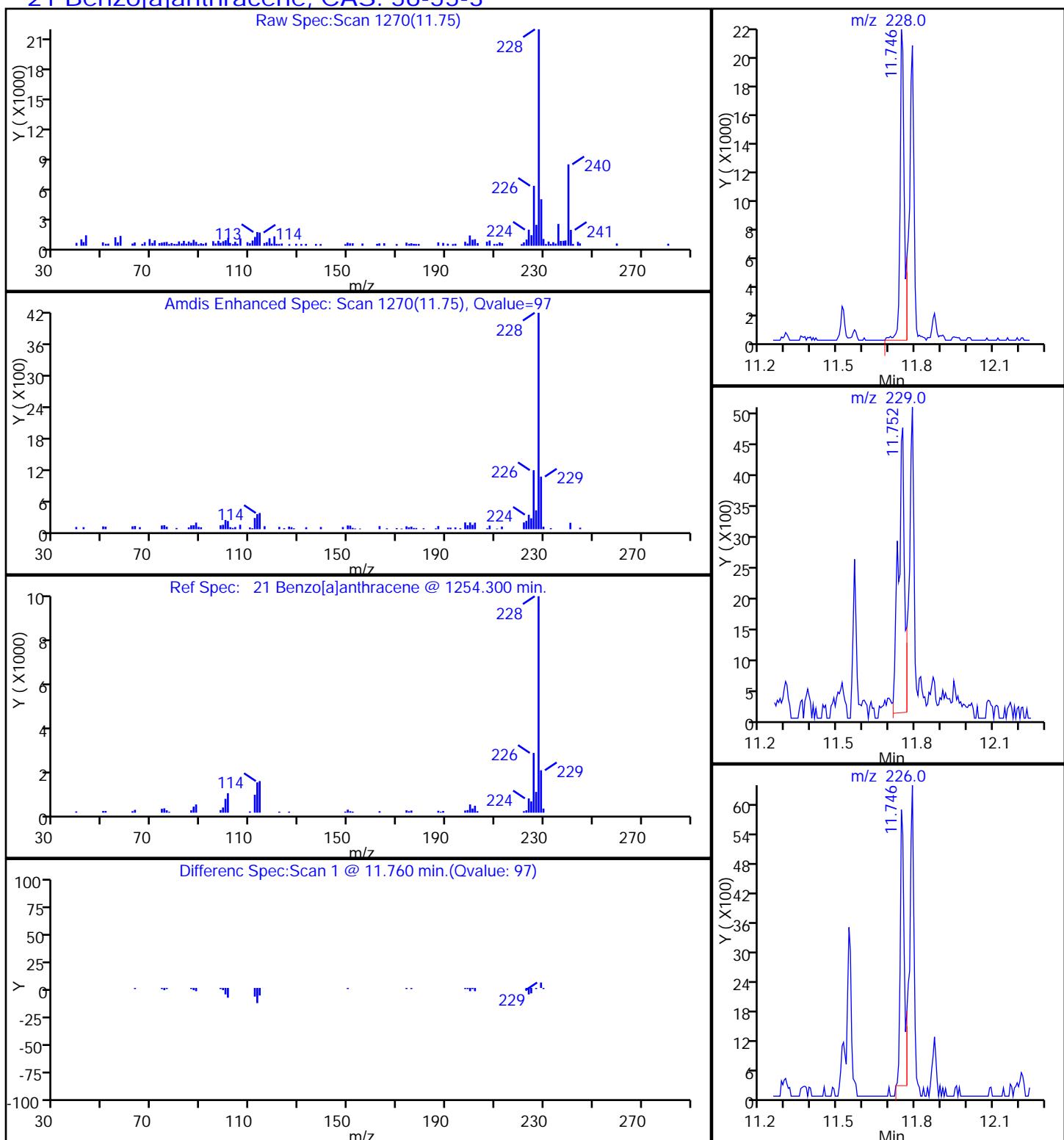
Dil. Factor: 10.0000

Method: 8270D\_LLPAH\_MSY

Limit Group: 8270D\_LL\_PAH

Column: Restek RXi-5Sil MS ( 0.25 mm)

Detector MS SCAN

**21 Benzo[a]anthracene, CAS: 56-55-3**

TestAmerica Savannah

Data File: \\ChromNA\\Savannah\\ChromData\CMSY\\20150818-22358.b\\1YF18017.D

Injection Date: 18-Aug-2015 19:17:30

Instrument ID: CMSY

Lims ID: 680-115692-A-9-A

Lab Sample ID: 680-115692-9

Client ID: CV0511TT-CS-24

Operator ID: LIMS import

ALS Bottle#: 17 Worklist Smp#: 17

Injection Vol: 2.0 ul

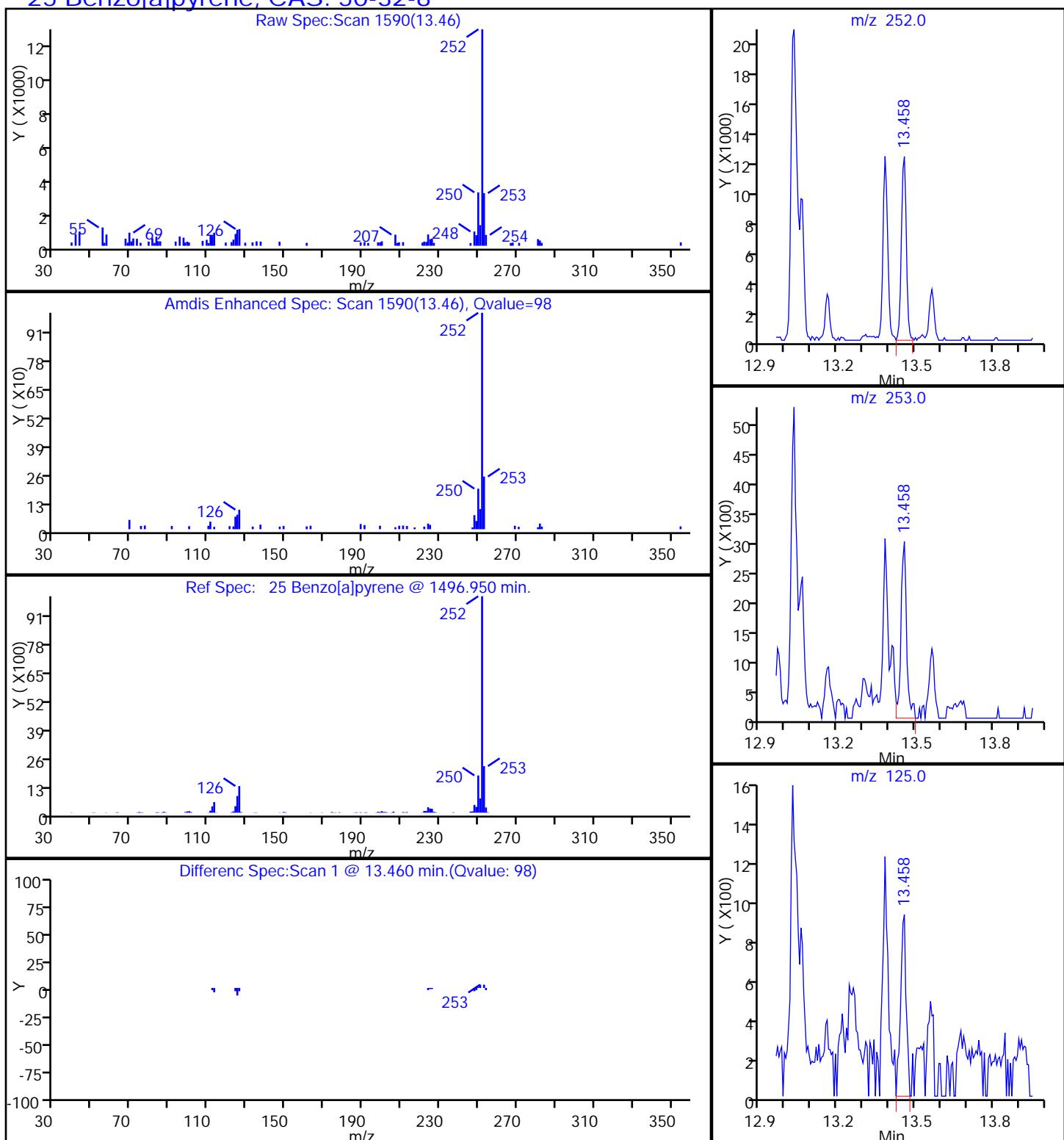
Dil. Factor: 10.0000

Method: 8270D\_LLPAH\_MSY

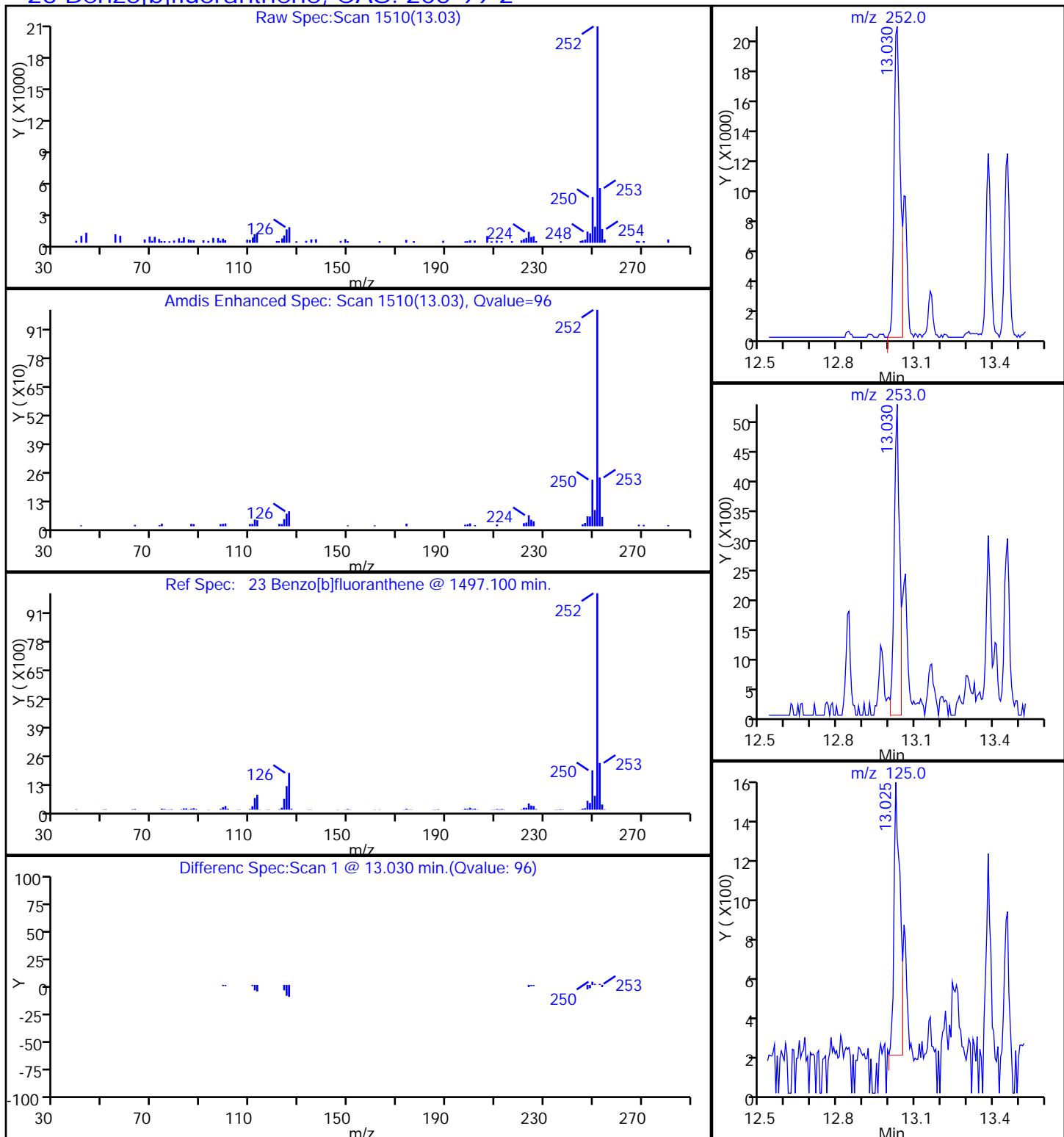
Limit Group: 8270D\_LL\_PAH

Column: Restek RXi-5Sil MS ( 0.25 mm)

Detector: MS SCAN

**25 Benzo[a]pyrene, CAS: 50-32-8**

TestAmerica Savannah  
 Data File: \\ChromNA\\Savannah\\ChromData\\CMSY\\20150818-22358.b\\1YF18017.D  
 Injection Date: 18-Aug-2015 19:17:30 Instrument ID: CMSY  
 Lims ID: 680-115692-A-9-A Lab Sample ID: 680-115692-9  
 Client ID: CV0511TT-CS-24  
 Operator ID: LIMS import ALS Bottle#: 17 Worklist Smp#: 17  
 Injection Vol: 2.0 ul Dil. Factor: 10.0000  
 Method: 8270D\_LLPAH\_MSY Limit Group: 8270D\_LL\_PAH  
 Column: Restek RXi-5Sil MS ( 0.25 mm) Detector MS SCAN

**23 Benzo[b]fluoranthene, CAS: 205-99-2**

TestAmerica Savannah

Data File: \\ChromNA\\Savannah\\ChromData\CMSY\\20150818-22358.b\\1YF18017.D

Injection Date: 18-Aug-2015 19:17:30

Instrument ID: CMSY

Lims ID: 680-115692-A-9-A

Lab Sample ID: 680-115692-9

Client ID: CV0511TT-CS-24

Operator ID: LIMS import

ALS Bottle#: 17 Worklist Smp#: 17

Injection Vol: 2.0 ul

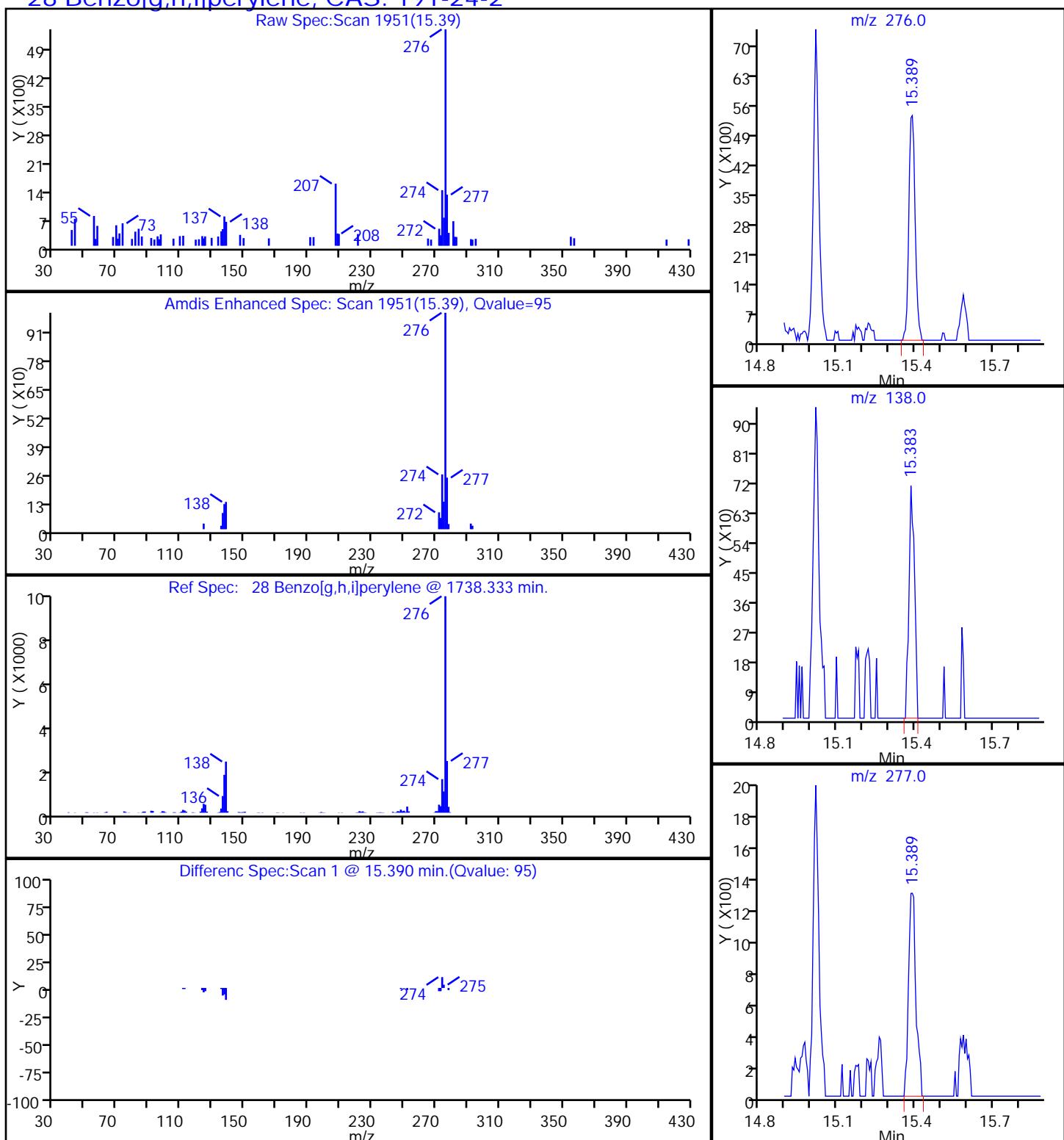
Dil. Factor: 10.0000

Method: 8270D\_LLPAH\_MSY

Limit Group: 8270D\_LL\_PAH

Column: Restek RXi-5Sil MS ( 0.25 mm)

Detector: MS SCAN

**28 Benzo[g,h,i]perylene, CAS: 191-24-2**

TestAmerica Savannah

Data File: \\ChromNA\\Savannah\\ChromData\CMSY\\20150818-22358.b\\1YF18017.D

Injection Date: 18-Aug-2015 19:17:30

Instrument ID: CMSY

Lims ID: 680-115692-A-9-A

Lab Sample ID: 680-115692-9

Client ID: CV0511TT-CS-24

Operator ID: LIMS import

ALS Bottle#: 17 Worklist Smp#: 17

Injection Vol: 2.0 ul

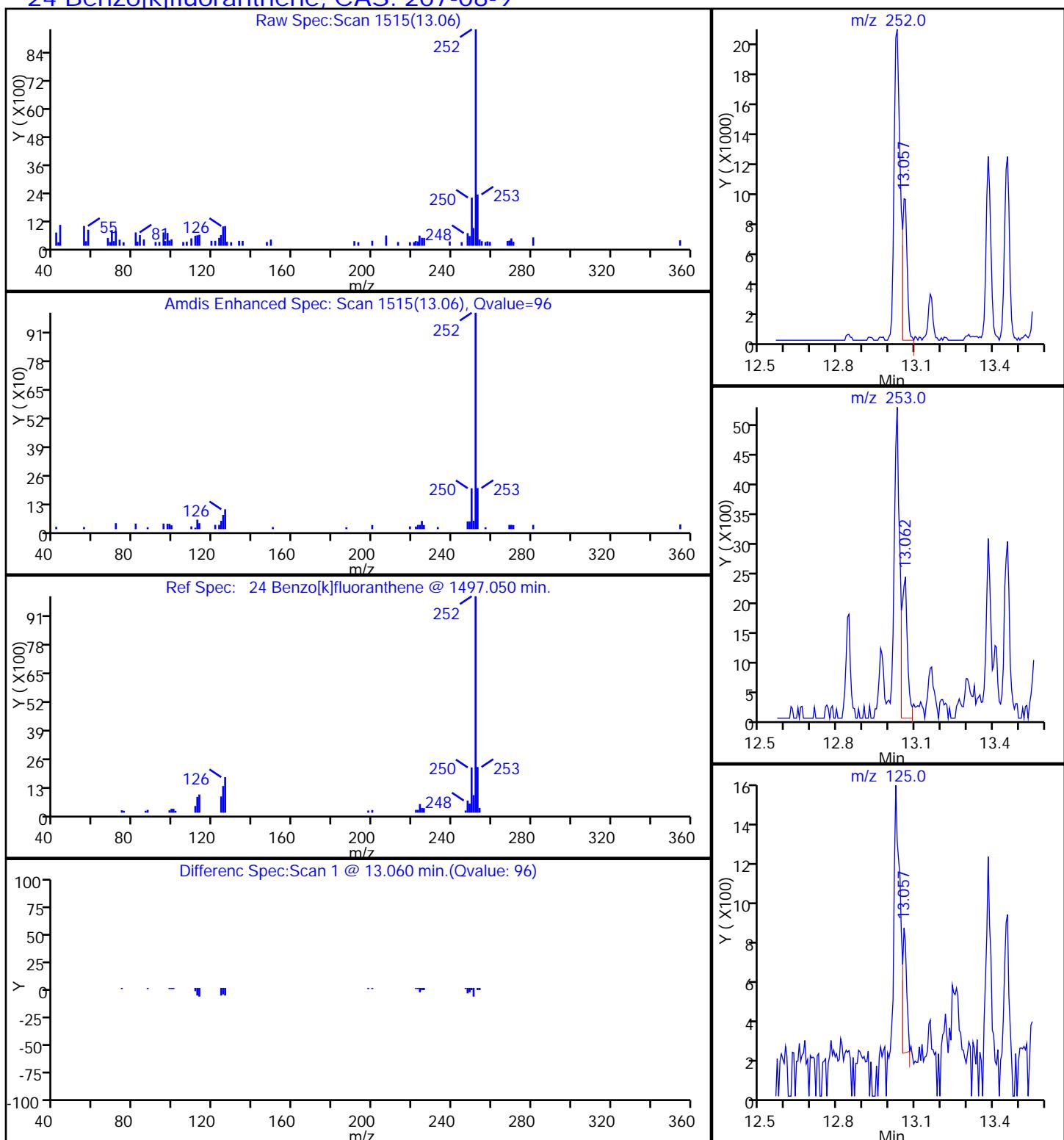
Dil. Factor: 10.0000

Method: 8270D\_LLPAH\_MSY

Limit Group: 8270D\_LL\_PAH

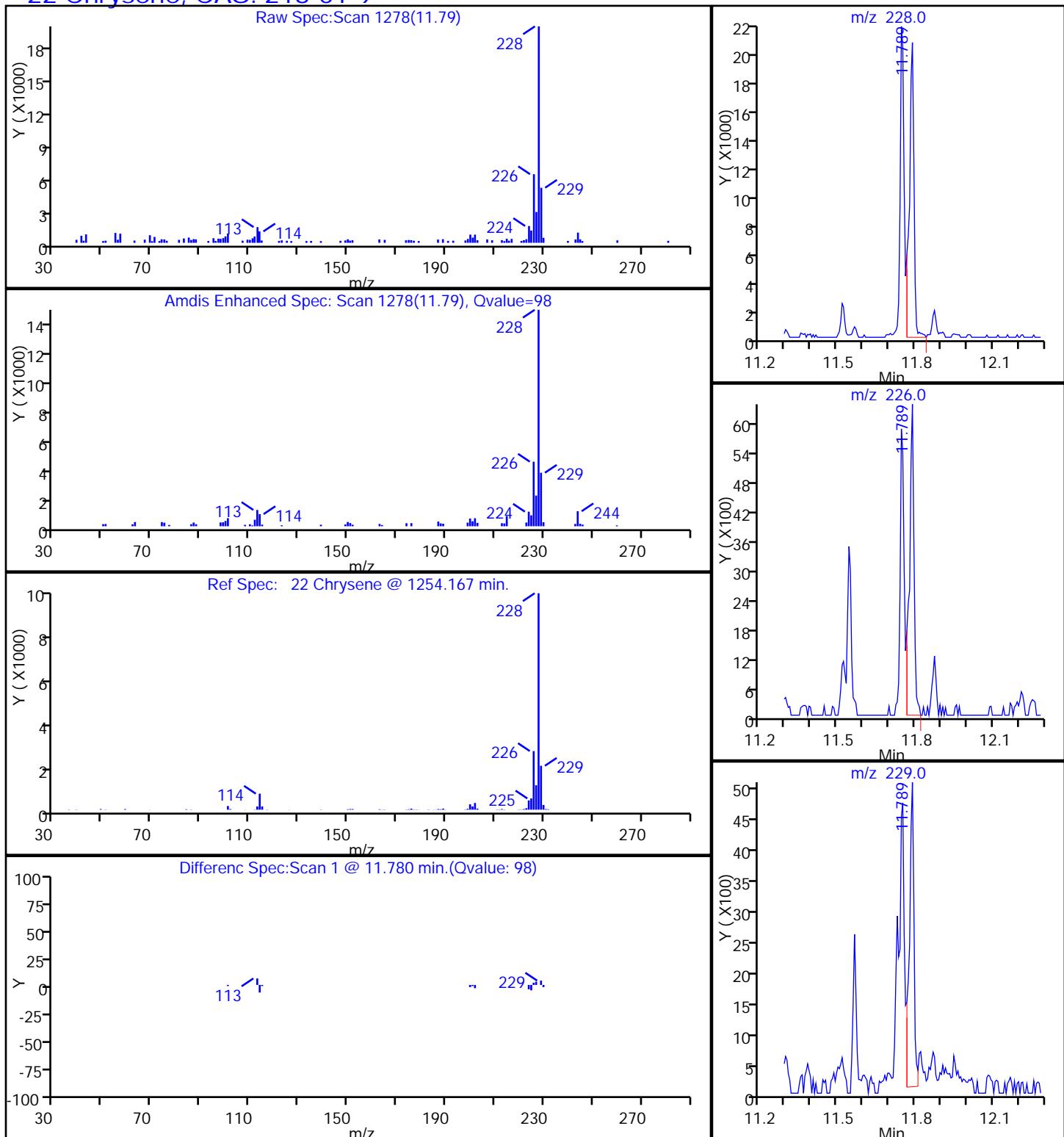
Column: Restek RXi-5Sil MS ( 0.25 mm)

Detector MS SCAN

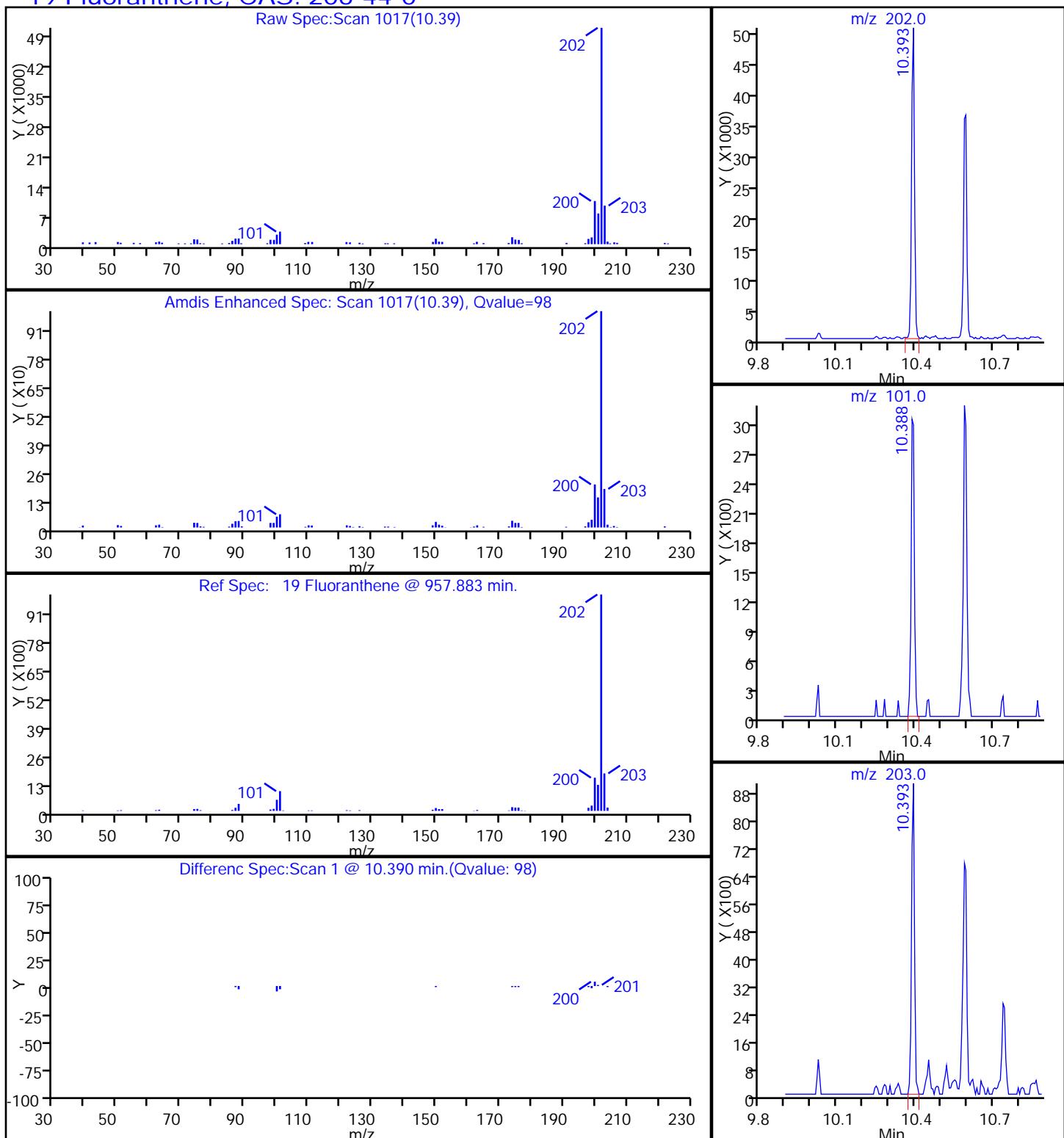
**24 Benzo[k]fluoranthene, CAS: 207-08-9**

TestAmerica Savannah  
 Data File: \\ChromNA\\Savannah\\ChromData\CMSY\\20150818-22358.b\\1YF18017.D  
 Injection Date: 18-Aug-2015 19:17:30 Instrument ID: CMSY  
 Lims ID: 680-115692-A-9-A Lab Sample ID: 680-115692-9  
 Client ID: CV0511TT-CS-24  
 Operator ID: LIMS import ALS Bottle#: 17 Worklist Smp#: 17  
 Injection Vol: 2.0 ul Dil. Factor: 10.0000  
 Method: 8270D\_LLPAH\_MSY Limit Group: 8270D\_LL\_PAH  
 Column: Restek RXi-5Sil MS ( 0.25 mm) Detector MS SCAN

## 22 Chrysene, CAS: 218-01-9



TestAmerica Savannah  
 Data File: \\ChromNA\\Savannah\\ChromData\\CMSY\\20150818-22358.b\\1YF18017.D  
 Injection Date: 18-Aug-2015 19:17:30 Instrument ID: CMSY  
 Lims ID: 680-115692-A-9-A Lab Sample ID: 680-115692-9  
 Client ID: CV0511TT-CS-24  
 Operator ID: LIMS import ALS Bottle#: 17 Worklist Smp#: 17  
 Injection Vol: 2.0 ul Dil. Factor: 10.0000  
 Method: 8270D\_LLPAH\_MSY Limit Group: 8270D\_LL\_PAH  
 Column: Restek RXi-5Sil MS ( 0.25 mm) Detector MS SCAN

**19 Fluoranthene, CAS: 206-44-0**

TestAmerica Savannah

Data File: \\ChromNA\\Savannah\\ChromData\\CMSY\\20150818-22358.b\\1YF18017.D

Injection Date: 18-Aug-2015 19:17:30

Instrument ID: CMSY

Lims ID: 680-115692-A-9-A

Lab Sample ID: 680-115692-9

Client ID: CV0511TT-CS-24

Operator ID: LIMS import

ALS Bottle#: 17 Worklist Smp#: 17

Injection Vol: 2.0 ul

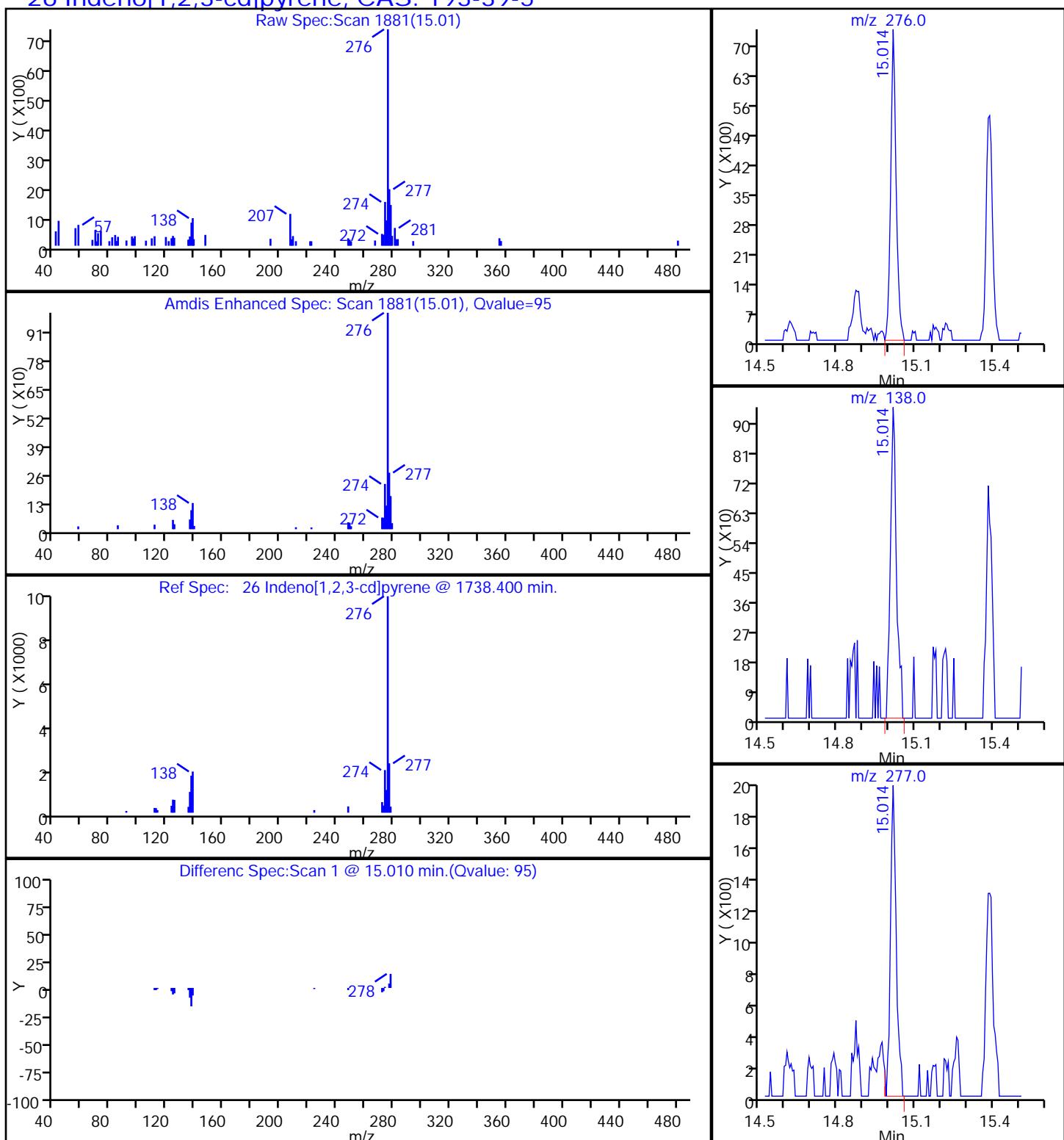
Dil. Factor: 10.0000

Method: 8270D\_LLPAH\_MSY

Limit Group: 8270D\_LL\_PAH

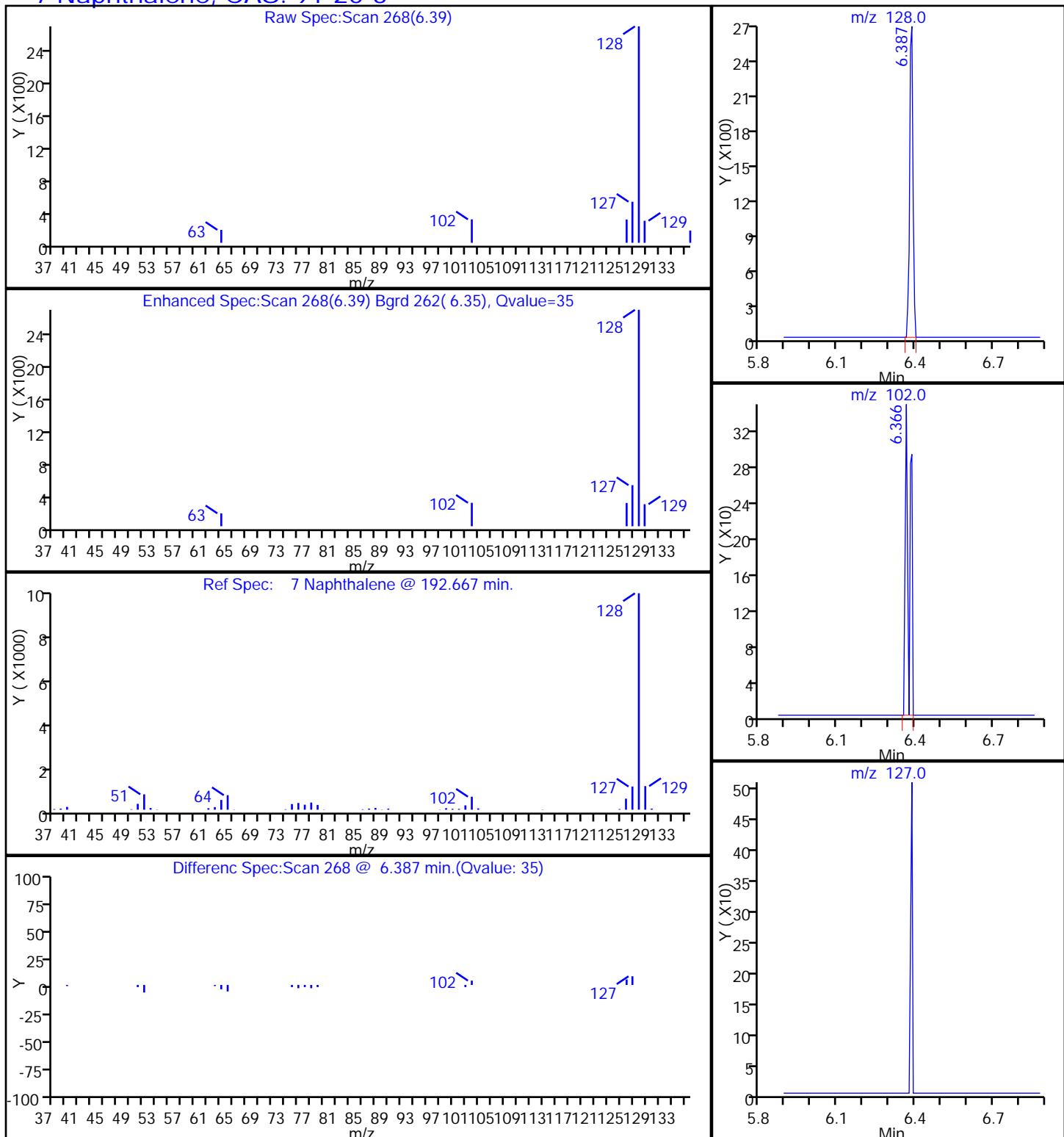
Column: Restek RXi-5Sil MS ( 0.25 mm)

Detector MS SCAN

**26 Indeno[1,2,3-cd]pyrene, CAS: 193-39-5**

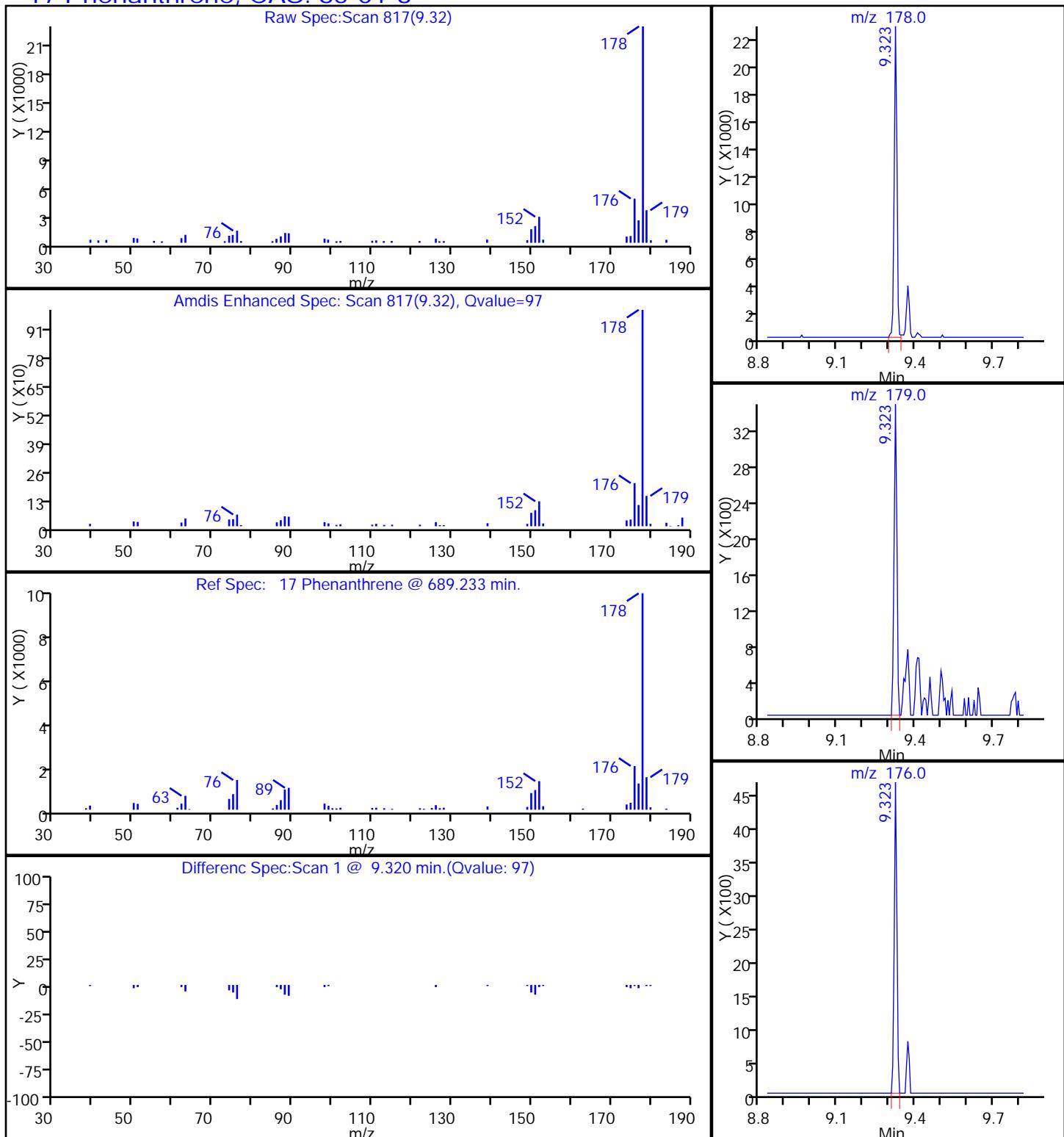
TestAmerica Savannah  
 Data File: \\ChromNA\\Savannah\\ChromData\\CMSY\\20150818-22358.b\\1YF18017.D  
 Injection Date: 18-Aug-2015 19:17:30 Instrument ID: CMSY  
 Lims ID: 680-115692-A-9-A Lab Sample ID: 680-115692-9  
 Client ID: CV0511TT-CS-24  
 Operator ID: LIMS import ALS Bottle#: 17 Worklist Smp#: 17  
 Injection Vol: 2.0 ul Dil. Factor: 10.0000  
 Method: 8270D\_LLPAH\_MSY Limit Group: 8270D\_LL\_PAH  
 Column: Restek RXi-5Sil MS ( 0.25 mm) Detector: MS SCAN

### 7 Naphthalene, CAS: 91-20-3



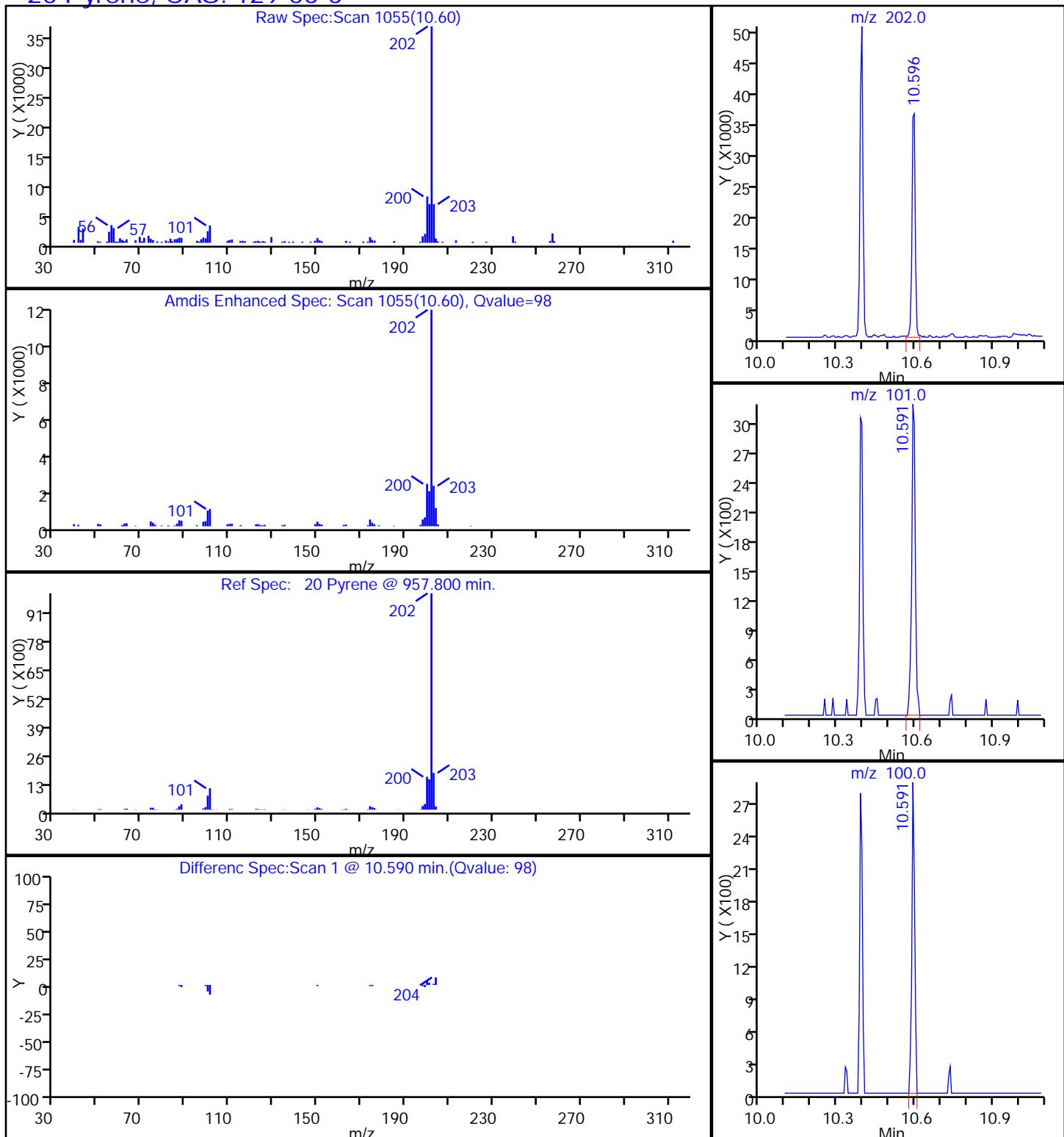
TestAmerica Savannah  
 Data File: \\ChromNA\\Savannah\\ChromData\CMSY\\20150818-22358.b\\1YF18017.D  
 Injection Date: 18-Aug-2015 19:17:30 Instrument ID: CMSY  
 Lims ID: 680-115692-A-9-A Lab Sample ID: 680-115692-9  
 Client ID: CV0511TT-CS-24  
 Operator ID: LIMS import ALS Bottle#: 17 Worklist Smp#: 17  
 Injection Vol: 2.0 ul Dil. Factor: 10.0000  
 Method: 8270D\_LLPAH\_MSY Limit Group: 8270D\_LL\_PAH  
 Column: Restek RXi-5Sil MS ( 0.25 mm) Detector: MS SCAN

### 17 Phenanthrene, CAS: 85-01-8



TestAmerica Savannah  
 Data File: \\ChromNA\\Savannah\\ChromData\\CMSY\\20150818-22358.b\\1YF18017.D  
 Injection Date: 18-Aug-2015 19:17:30 Instrument ID: CMSY  
 Lims ID: 680-115692-A-9-A Lab Sample ID: 680-115692-9  
 Client ID: CV0511TT-CS-24  
 Operator ID: LIMS import ALS Bottle#: 17 Worklist Smp#: 17  
 Injection Vol: 2.0 ul Dil. Factor: 10.0000  
 Method: 8270D\_LLPAH\_MSY Limit Group: 8270D\_LL\_PAH  
 Column: Restek RXi-5Sil MS ( 0.25 mm) Detector MS SCAN

## 20 Pyrene, CAS: 129-00-0



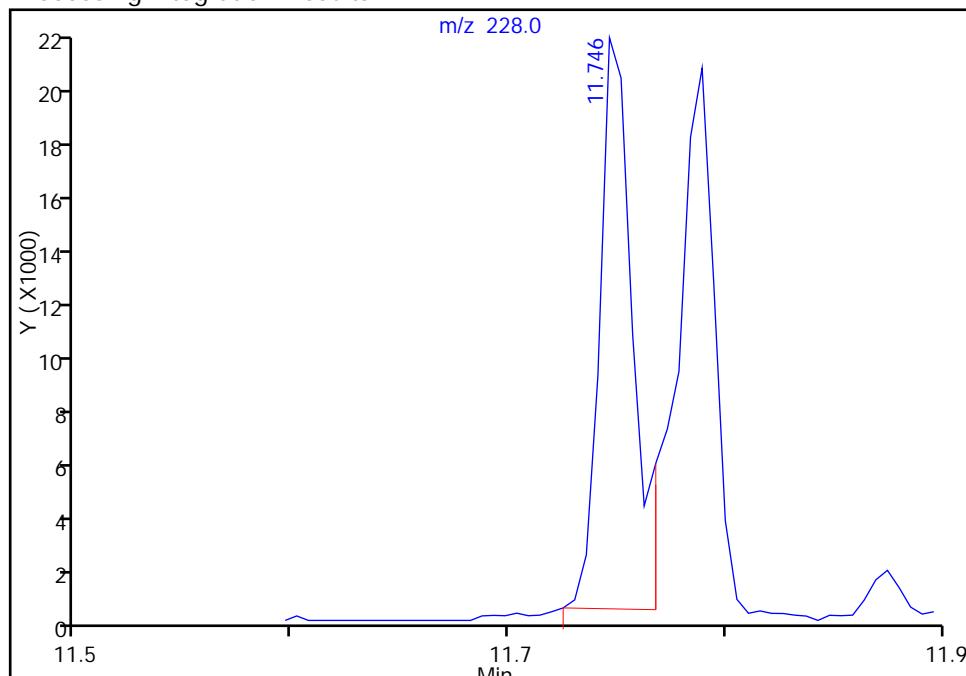
## TestAmerica Savannah

Data File: \\ChromNA\\Savannah\\ChromData\\CMSY\\20150818-22358.b\\1YF18017.D  
 Injection Date: 18-Aug-2015 19:17:30 Instrument ID: CMSY  
 Lims ID: 680-115692-A-9-A Lab Sample ID: 680-115692-9  
 Client ID: CV0511TT-CS-24  
 Operator ID: LIMS import ALS Bottle#: 17 Worklist Smp#: 17  
 Injection Vol: 2.0 ul Dil. Factor: 10.0000  
 Method: 8270D\_LLPAH\_MSY Limit Group: 8270D\_LL\_PAH  
 Column: Restek RXi-5Sil MS ( 0.25 mm) Detector: MS SCAN

## 21 Benzo[a]anthracene, CAS: 56-55-3

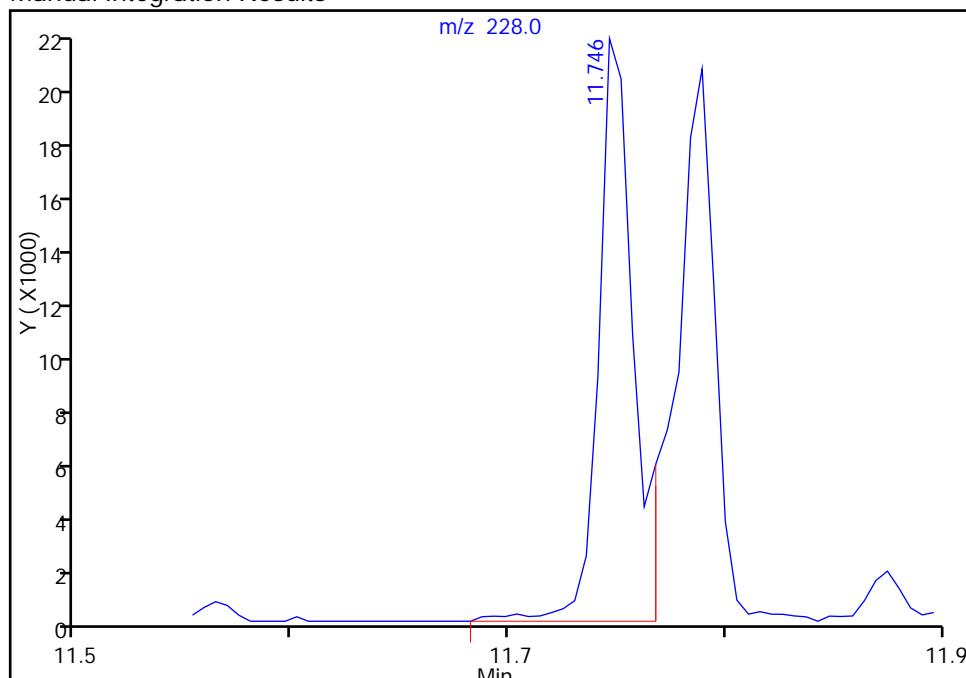
RT: 11.75  
 Area: 22317  
 Amount: 0.565004  
 Amount Units: ug/ml

## Processing Integration Results



RT: 11.75  
 Area: 23997  
 Amount: 0.607537  
 Amount Units: ug/ml

## Manual Integration Results



Reviewer: millsj, 19-Aug-2015 11:11:29

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

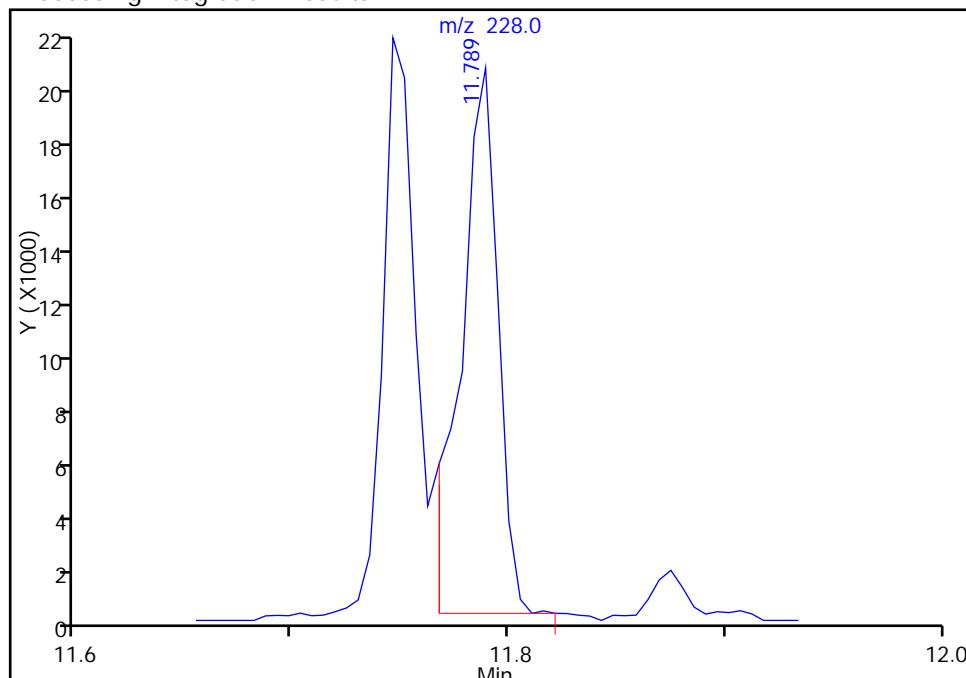
## TestAmerica Savannah

Data File: \\ChromNA\\Savannah\\ChromData\\CMSY\\20150818-22358.b\\1YF18017.D  
 Injection Date: 18-Aug-2015 19:17:30 Instrument ID: CMSY  
 Lims ID: 680-115692-A-9-A Lab Sample ID: 680-115692-9  
 Client ID: CV0511TT-CS-24  
 Operator ID: LIMS import ALS Bottle#: 17 Worklist Smp#: 17  
 Injection Vol: 2.0 ul Dil. Factor: 10.0000  
 Method: 8270D\_LLPAH\_MSY Limit Group: 8270D\_LL\_PAH  
 Column: Restek RXi-5Sil MS ( 0.25 mm) Detector: MS SCAN

## 22 Chrysene, CAS: 218-01-9

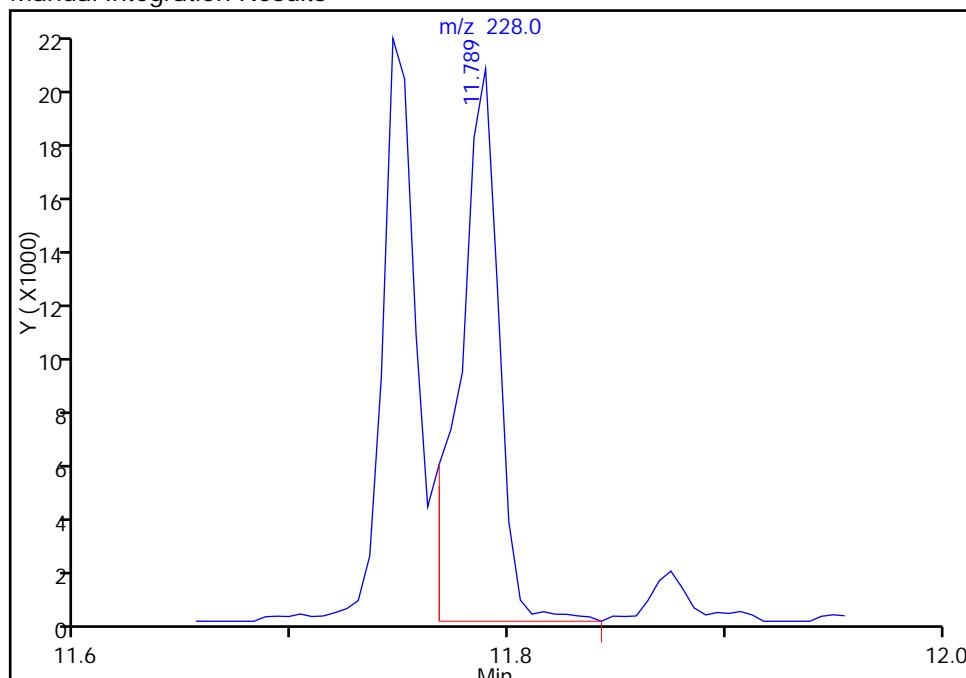
RT: 11.79  
 Area: 23684  
 Amount: 0.627280  
 Amount Units: ug/ml

## Processing Integration Results



RT: 11.79  
 Area: 24775  
 Amount: 0.656175  
 Amount Units: ug/ml

## Manual Integration Results



Reviewer: millsj, 19-Aug-2015 11:11:29

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

FORM I  
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Savannah Job No.: 680-115692-1  
 SDG No.: 680-115692-01  
 Client Sample ID: CV0511SS-CS-6 Lab Sample ID: 680-115692-10  
 Matrix: Solid Lab File ID: 1YF18018.D  
 Analysis Method: 8270D\_LL\_PAH Date Collected: 08/10/2015 15:35  
 Extract. Method: 3546 Date Extracted: 08/17/2015 10:44  
 Sample wt/vol: 30.04(g) Date Analyzed: 08/18/2015 19:45  
 Con. Extract Vol.: 1(mL) Dilution Factor: 10  
 Injection Volume: 2(uL) Level: (low/med) Low  
 % Moisture: 13.5 GPC Cleanup: (Y/N) N  
 Analysis Batch No.: 396712 Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	77	U	77	38
208-96-8	Acenaphthylene	77	U	77	38
120-12-7	Anthracene	77	U	77	38
56-55-3	Benzo[a]anthracene	74	J	77	38
50-32-8	Benzo[a]pyrene	74	J	77	14
205-99-2	Benzo[b]fluoranthene	110		77	38
191-24-2	Benzo[g,h,i]perylene	42	J	77	38
207-08-9	Benzo[k]fluoranthene	52	J	77	23
218-01-9	Chrysene	78		77	38
53-70-3	Dibenz(a,h)anthracene	77	U	77	38
206-44-0	Fluoranthene	130		77	38
86-73-7	Fluorene	77	U	77	38
193-39-5	Indeno[1,2,3-cd]pyrene	77	U	77	38
90-12-0	1-Methylnaphthalene	77	U	77	36
91-57-6	2-Methylnaphthalene	77	U	77	38
91-20-3	Naphthalene	77	U	77	38
85-01-8	Phenanthrene	61	J	77	28
129-00-0	Pyrene	110		77	38

CAS NO.	SURROGATE	%REC	Q	LIMITS
84-15-1	o-Terphenyl	0	D	36-131

TestAmerica Savannah  
Target Compound Quantitation Report

Data File: \\ChromNA\Savannah\ChromData\CMSY\20150818-22358.b\1YF18018.D  
 Lims ID: 680-115692-A-10-A Lab Sample ID: 680-115692-10  
 Client ID: CV0511SS-CS-6  
 Sample Type: Client  
 Inject. Date: 18-Aug-2015 19:45:30 ALS Bottle#: 18 Worklist Smp#: 18  
 Injection Vol: 2.0 ul Dil. Factor: 10.0000  
 Sample Info: 680-115692-A-10-A  
 Misc. Info.: 680-0022358-018  
 Operator ID: LIMS import Instrument ID: CMSY  
 Method: \\ChromNA\Savannah\ChromData\CMSY\20150818-22358.b\8270D\_LLPAH\_MSY.m  
 Limit Group: 8270D\_LL\_PAH  
 Last Update: 19-Aug-2015 11:22:28 Calib Date: 12-Aug-2015 16:37:30  
 Integrator: RTE ID Type: Deconvolution ID  
 Quant Method: Internal Standard Quant By: Initial Calibration  
 Last ICAL File: \\ChromNA\Savannah\ChromData\CMSY\20150812-22174.b\1YF12008.D  
 Column 1 : Restek RXi-5Sil MS ( 0.25 mm) Det: MS SCAN  
 Process Host: XAWRK003

First Level Reviewer: millsj

Date: 19-Aug-2015 11:12:22

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/ml	Flags
* 1 Naphthalene-d8	136	6.366	6.366	0.000	99	46119	2.00	
* 2 Acenaphthene-d10	164	7.970	7.975	-0.005	97	25429	2.00	
* 3 Phenanthrene-d10	188	9.302	9.307	-0.005	97	56475	2.00	
* 4 Chrysene-d12	240	11.762	11.773	-0.011	98	83168	2.00	
* 5 Perylene-d12	264	13.527	13.538	-0.011	98	73456	2.00	
17 Phenanthrene	178	9.323	9.329	-0.006	95	4310	0.1597	
19 Fluoranthene	202	10.388	10.398	-0.010	98	11172	0.3445	
20 Pyrene	202	10.591	10.602	-0.011	98	10054	0.2766	
21 Benzo[a]anthracene	228	11.752	11.762	-0.010	95	7659	0.1914	
22 Chrysene	228	11.789	11.805	-0.016	99	7729	0.2020	
23 Benzo[b]fluoranthene	252	13.025	13.041	-0.016	96	10470	0.2916	
24 Benzo[k]fluoranthene	252	13.057	13.078	-0.021	94	4729	0.1350	
25 Benzo[a]pyrene	252	13.453	13.469	-0.016	98	6428	0.1925	
26 Indeno[1,2,3-cd]pyrene	276	15.014	15.025	-0.011	65	3969	0.0649	7
28 Benzo[g,h,i]perylene	276	15.389	15.399	-0.010	96	4288	0.1104	

**QC Flag Legend**

Processing Flags

7 - Failed Limit of Detection

**Reagents:**

SM-LLISTD\_00128

Amount Added: 10.00

Units: uL

Run Reagent

Report Date: 19-Aug-2015 11:22:50

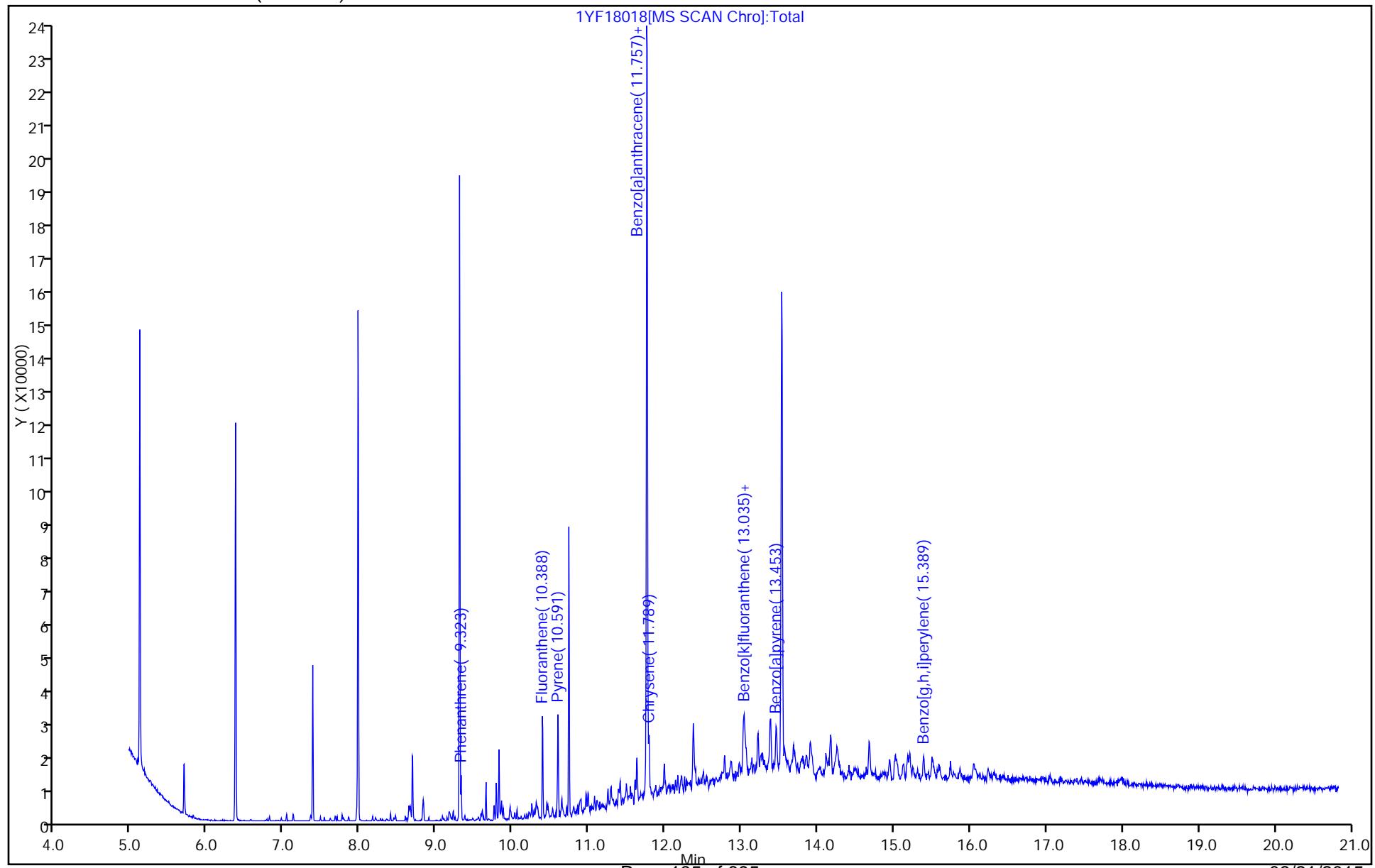
Chrom Revision: 2.2 23-Jul-2015 08:26:08

## TestAmerica Savannah

Data File: \\ChromNA\\Savannah\\ChromData\\CMSY\\20150818-22358.b\\1YF18018.D  
Injection Date: 18-Aug-2015 19:45:30 Instrument ID: CMSY  
Lims ID: 680-115692-A-10-A Lab Sample ID: 680-115692-10  
Client ID: CV0511SS-CS-6  
Injection Vol: 2.0 ul Dil. Factor: 10.0000  
Method: 8270D\_LLPAH\_MSY Limit Group: 8270D\_LL\_PAH  
Column: Restek RXi-5Sil MS ( 0.25 mm)

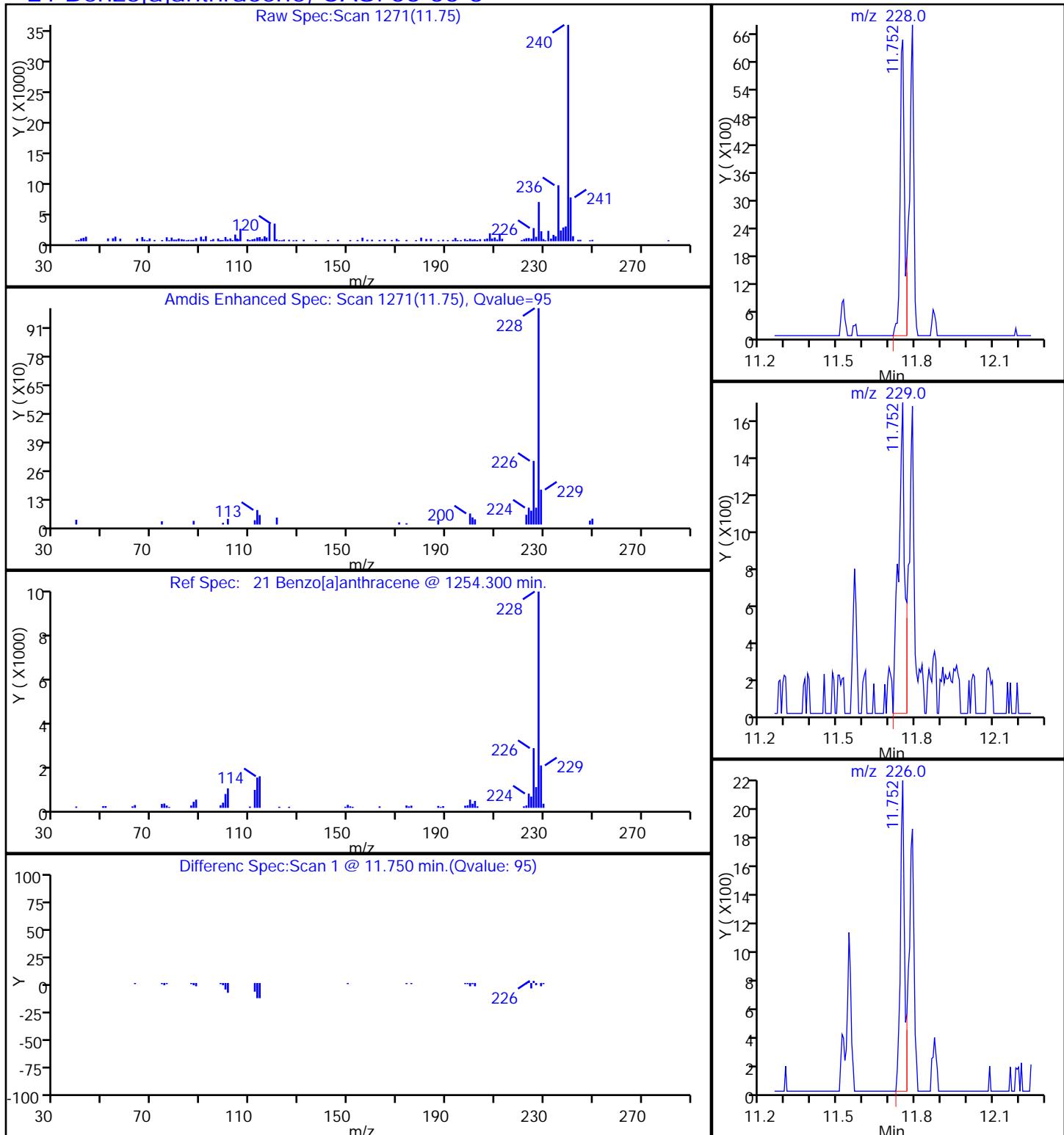
Operator ID: LIMS import  
Worklist Smp#: 18

ALS Bottle#: 18



TestAmerica Savannah  
 Data File: \\ChromNA\\Savannah\\ChromData\\CMSY\\20150818-22358.b\\1YF18018.D  
 Injection Date: 18-Aug-2015 19:45:30 Instrument ID: CMSY  
 Lims ID: 680-115692-A-10-A Lab Sample ID: 680-115692-10  
 Client ID: CV0511SS-CS-6  
 Operator ID: LIMS import ALS Bottle#: 18 Worklist Smp#: 18  
 Injection Vol: 2.0 ul Dil. Factor: 10.0000  
 Method: 8270D\_LLPAH\_MSY Limit Group: 8270D\_LL\_PAH  
 Column: Restek RXi-5Sil MS ( 0.25 mm) Detector MS SCAN

### 21 Benzo[a]anthracene, CAS: 56-55-3



TestAmerica Savannah

Data File: \\ChromNA\\Savannah\\ChromData\CMSY\\20150818-22358.b\\1YF18018.D

Injection Date: 18-Aug-2015 19:45:30

Instrument ID: CMSY

Lims ID: 680-115692-A-10-A

Lab Sample ID: 680-115692-10

Client ID: CV0511SS-CS-6

Operator ID: LIMS import

ALS Bottle#: 18 Worklist Smp#: 18

Injection Vol: 2.0 ul

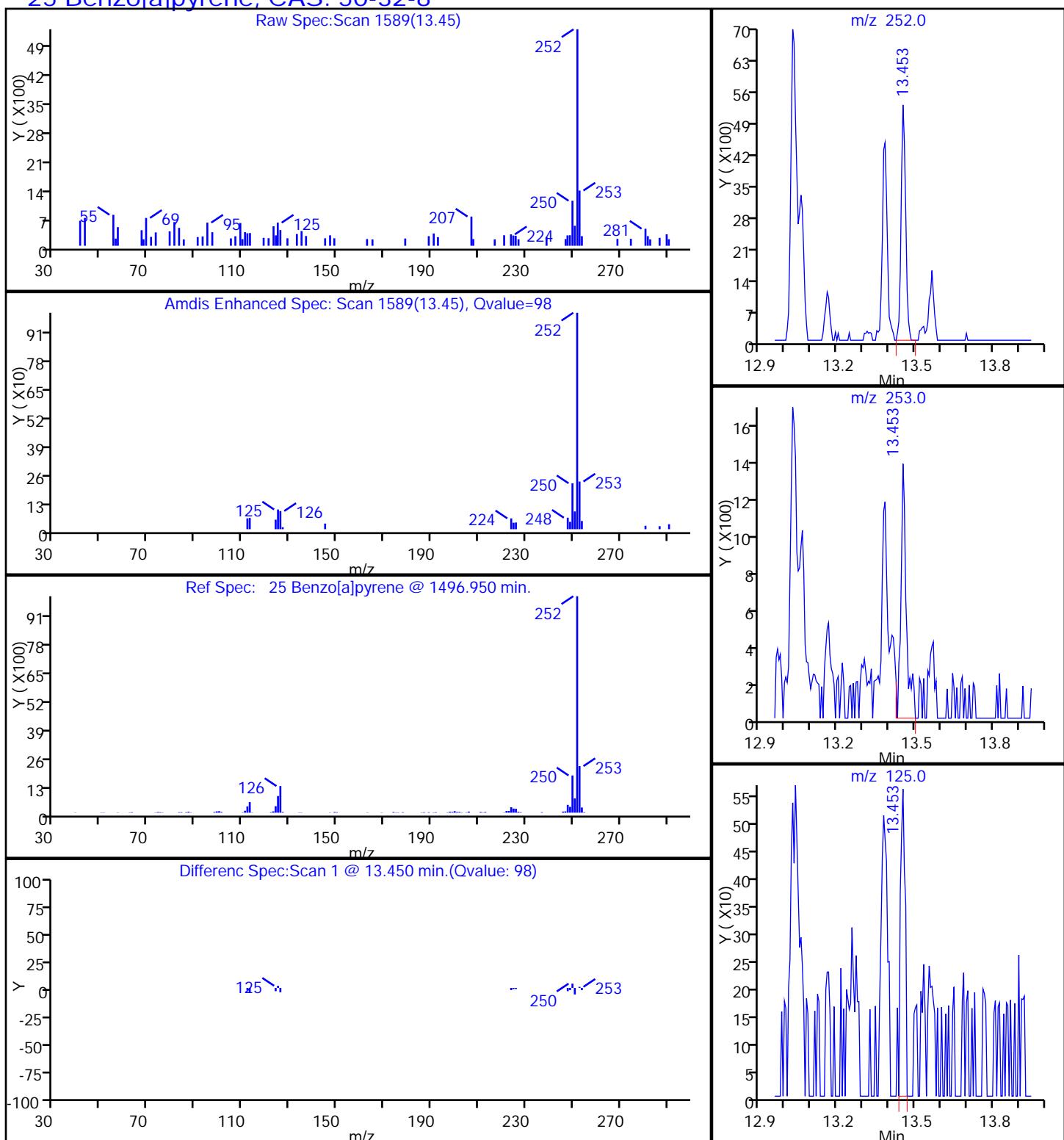
Dil. Factor: 10.0000

Method: 8270D\_LLPAH\_MSY

Limit Group: 8270D\_LL\_PAH

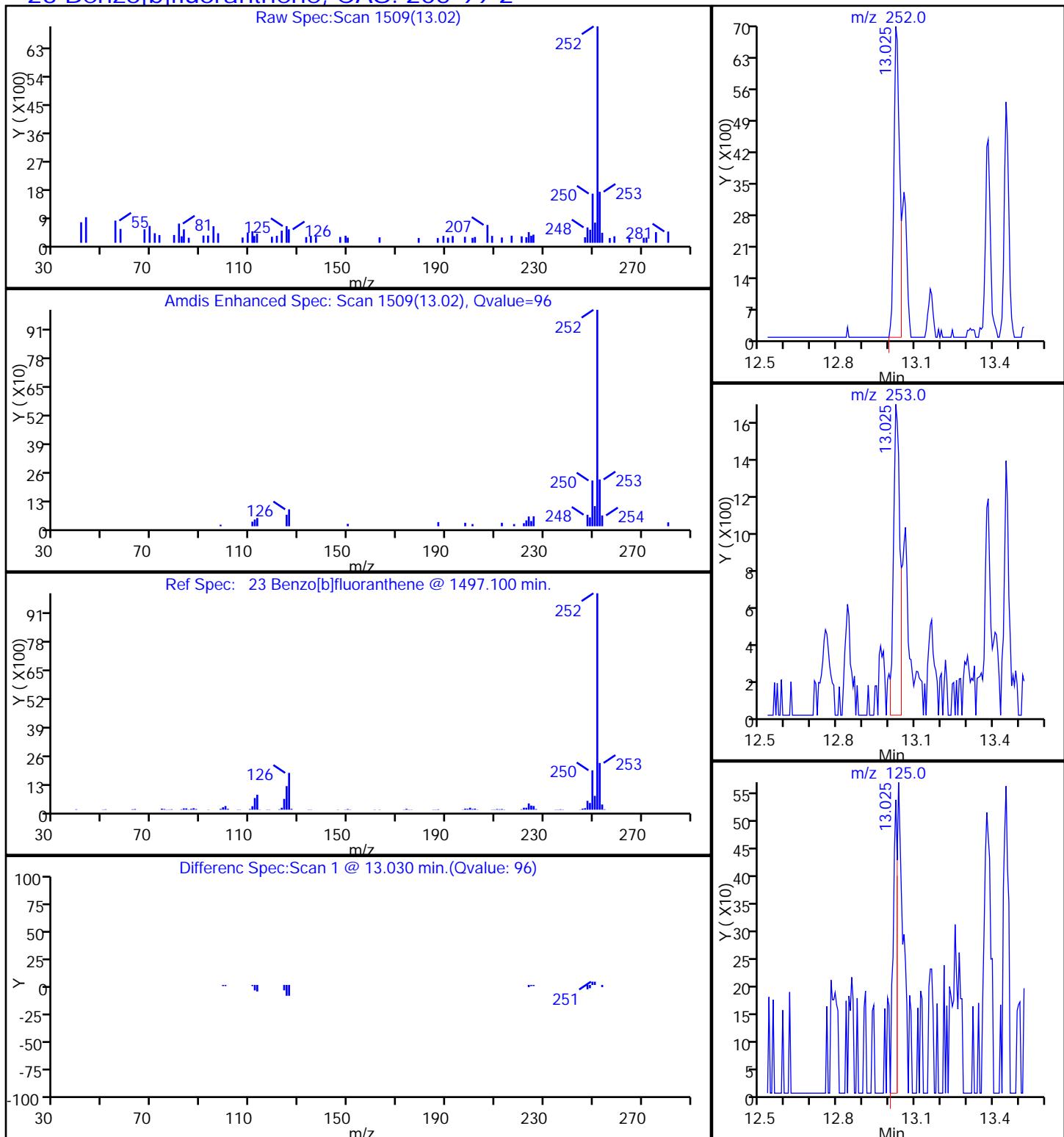
Column: Restek RXi-5Sil MS ( 0.25 mm)

Detector: MS SCAN

**25 Benzo[a]pyrene, CAS: 50-32-8**

TestAmerica Savannah  
 Data File: \\ChromNA\\Savannah\\ChromData\\CMSY\\20150818-22358.b\\1YF18018.D  
 Injection Date: 18-Aug-2015 19:45:30 Instrument ID: CMSY  
 Lims ID: 680-115692-A-10-A Lab Sample ID: 680-115692-10  
 Client ID: CV0511SS-CS-6  
 Operator ID: LIMS import ALS Bottle#: 18 Worklist Smp#: 18  
 Injection Vol: 2.0 ul Dil. Factor: 10.0000  
 Method: 8270D\_LLPAH\_MSY Limit Group: 8270D\_LL\_PAH  
 Column: Restek RXi-5Sil MS ( 0.25 mm) Detector MS SCAN

### 23 Benzo[b]fluoranthene, CAS: 205-99-2



TestAmerica Savannah

Data File: \\ChromNA\\Savannah\\ChromData\CMSY\\20150818-22358.b\\1YF18018.D

Injection Date: 18-Aug-2015 19:45:30

Instrument ID: CMSY

Lims ID: 680-115692-A-10-A

Lab Sample ID: 680-115692-10

Client ID: CV0511SS-CS-6

Operator ID: LIMS import

ALS Bottle#: 18 Worklist Smp#: 18

Injection Vol: 2.0 ul

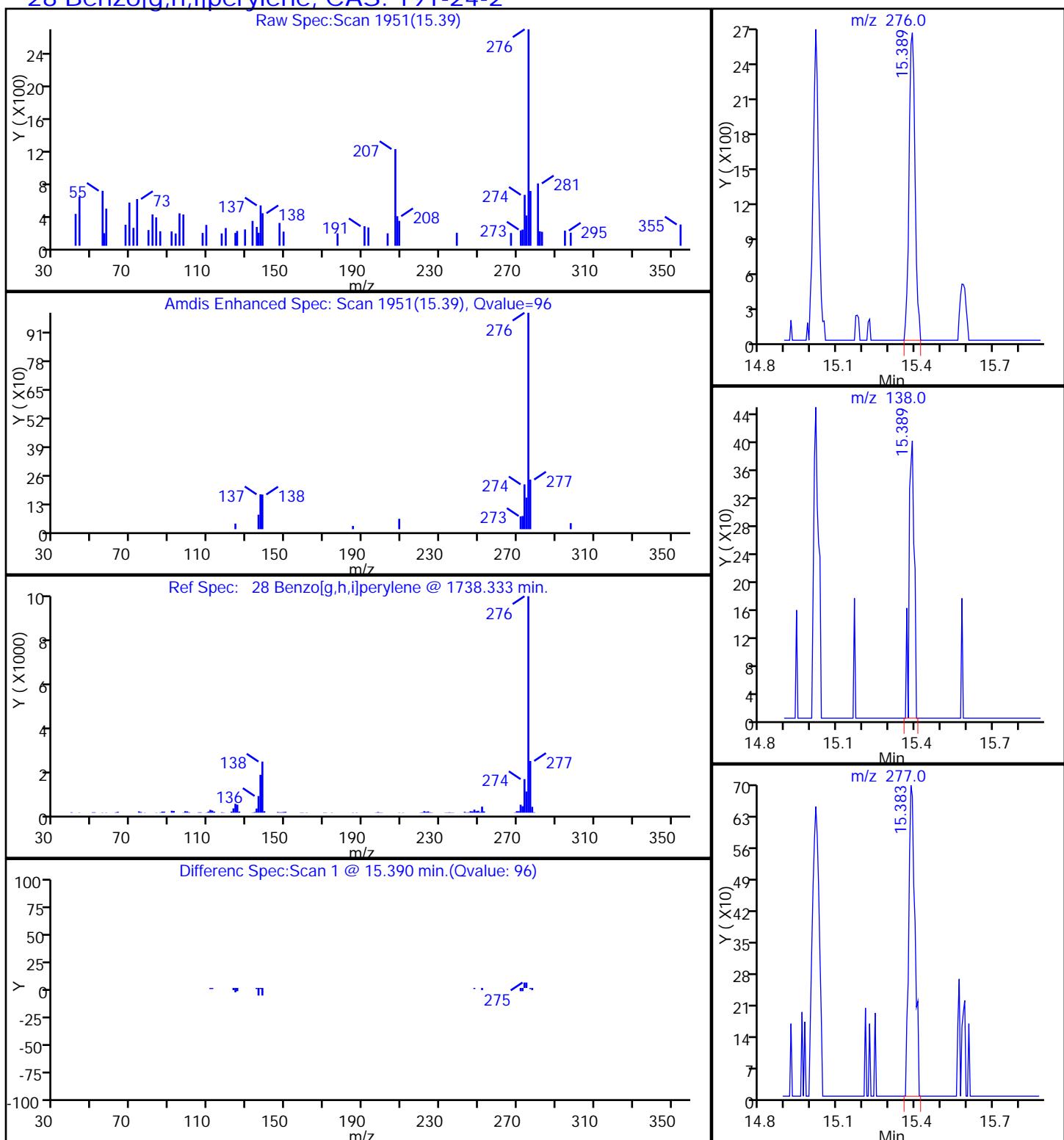
Dil. Factor: 10.0000

Method: 8270D\_LLPAH\_MSY

Limit Group: 8270D\_LL\_PAH

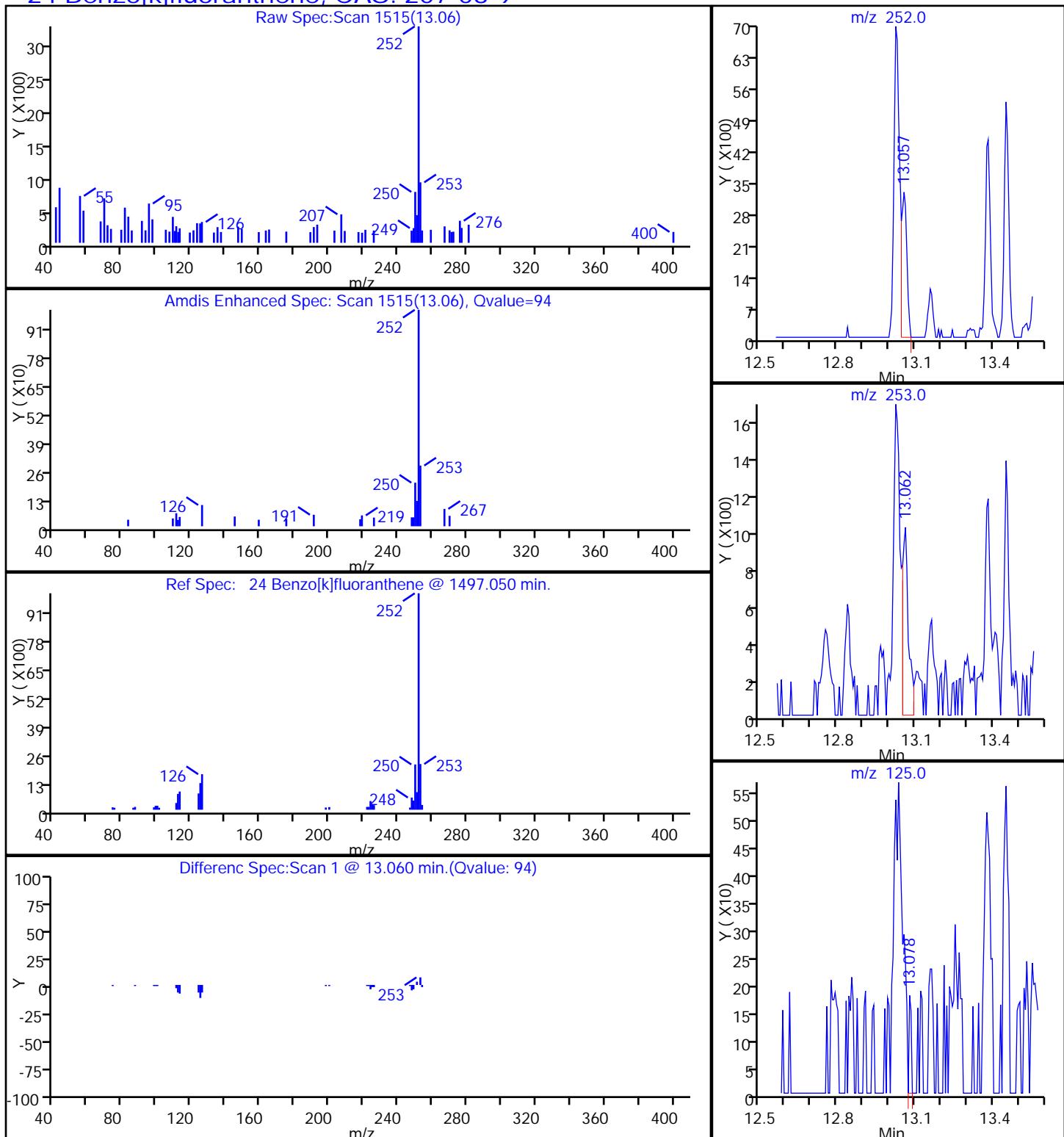
Column: Restek RXi-5Sil MS ( 0.25 mm)

Detector MS SCAN

**28 Benzo[g,h,i]perylene, CAS: 191-24-2**

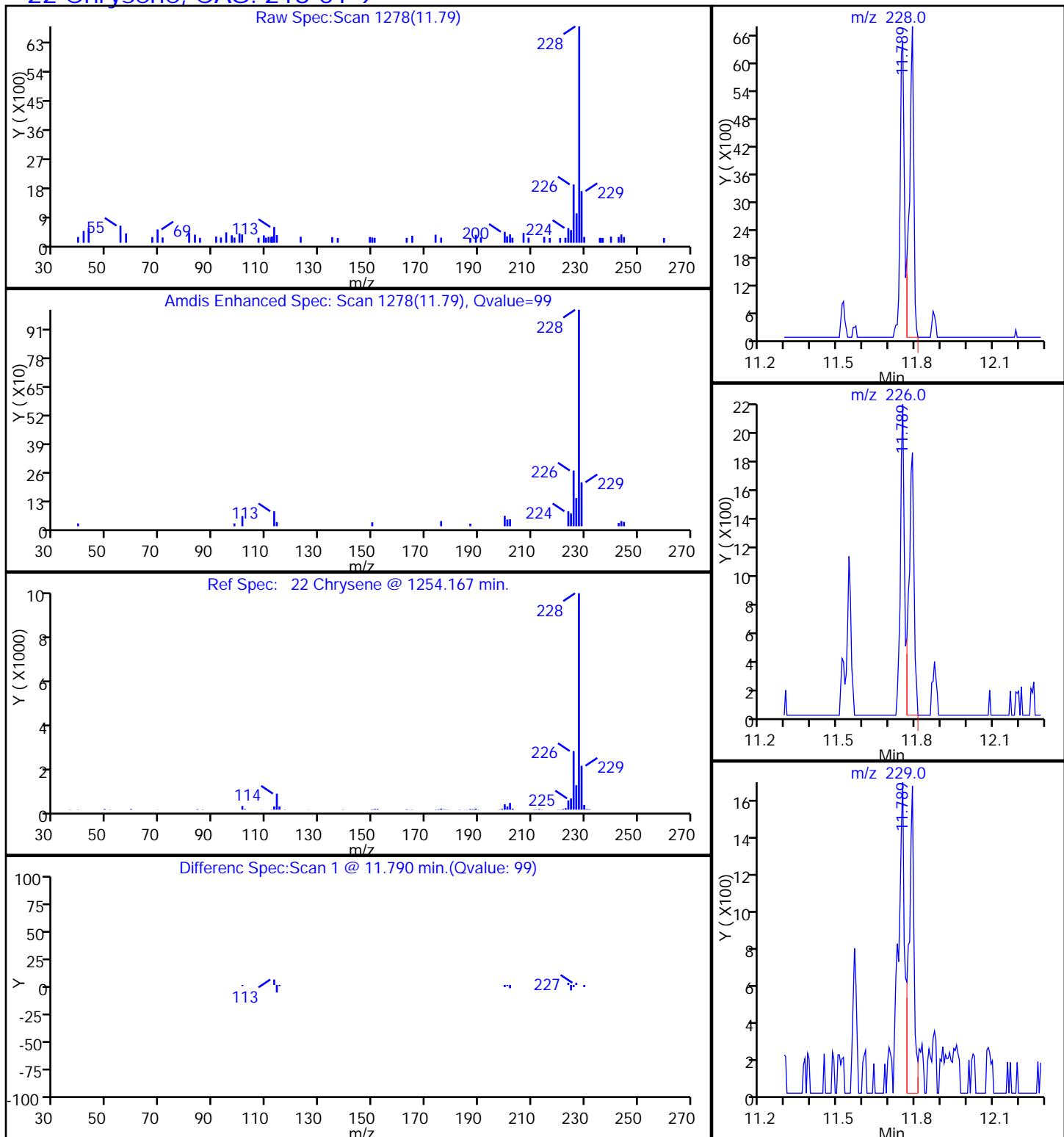
TestAmerica Savannah  
 Data File: \\ChromNA\\Savannah\\ChromData\\CMSY\\20150818-22358.b\\1YF18018.D  
 Injection Date: 18-Aug-2015 19:45:30 Instrument ID: CMSY  
 Lims ID: 680-115692-A-10-A Lab Sample ID: 680-115692-10  
 Client ID: CV0511SS-CS-6  
 Operator ID: LIMS import ALS Bottle#: 18 Worklist Smp#: 18  
 Injection Vol: 2.0 ul Dil. Factor: 10.0000  
 Method: 8270D\_LLPAH\_MSY Limit Group: 8270D\_LL\_PAH  
 Column: Restek RXi-5Sil MS ( 0.25 mm) Detector MS SCAN

### 24 Benzo[k]fluoranthene, CAS: 207-08-9



TestAmerica Savannah  
 Data File: \\ChromNA\\Savannah\\ChromData\\CMSY\\20150818-22358.b\\1YF18018.D  
 Injection Date: 18-Aug-2015 19:45:30 Instrument ID: CMSY  
 Lims ID: 680-115692-A-10-A Lab Sample ID: 680-115692-10  
 Client ID: CV0511SS-CS-6  
 Operator ID: LIMS import ALS Bottle#: 18 Worklist Smp#: 18  
 Injection Vol: 2.0 ul Dil. Factor: 10.0000  
 Method: 8270D\_LLPAH\_MSY Limit Group: 8270D\_LL\_PAH  
 Column: Restek RXi-5Sil MS ( 0.25 mm) Detector MS SCAN

### 22 Chrysene, CAS: 218-01-9



TestAmerica Savannah

Data File: \\ChromNA\\Savannah\\ChromData\CMSY\\20150818-22358.b\\1YF18018.D

Injection Date: 18-Aug-2015 19:45:30

Instrument ID: CMSY

Lims ID: 680-115692-A-10-A

Lab Sample ID: 680-115692-10

Client ID: CV0511SS-CS-6

Operator ID: LIMS import

ALS Bottle#: 18 Worklist Smp#: 18

Injection Vol: 2.0 ul

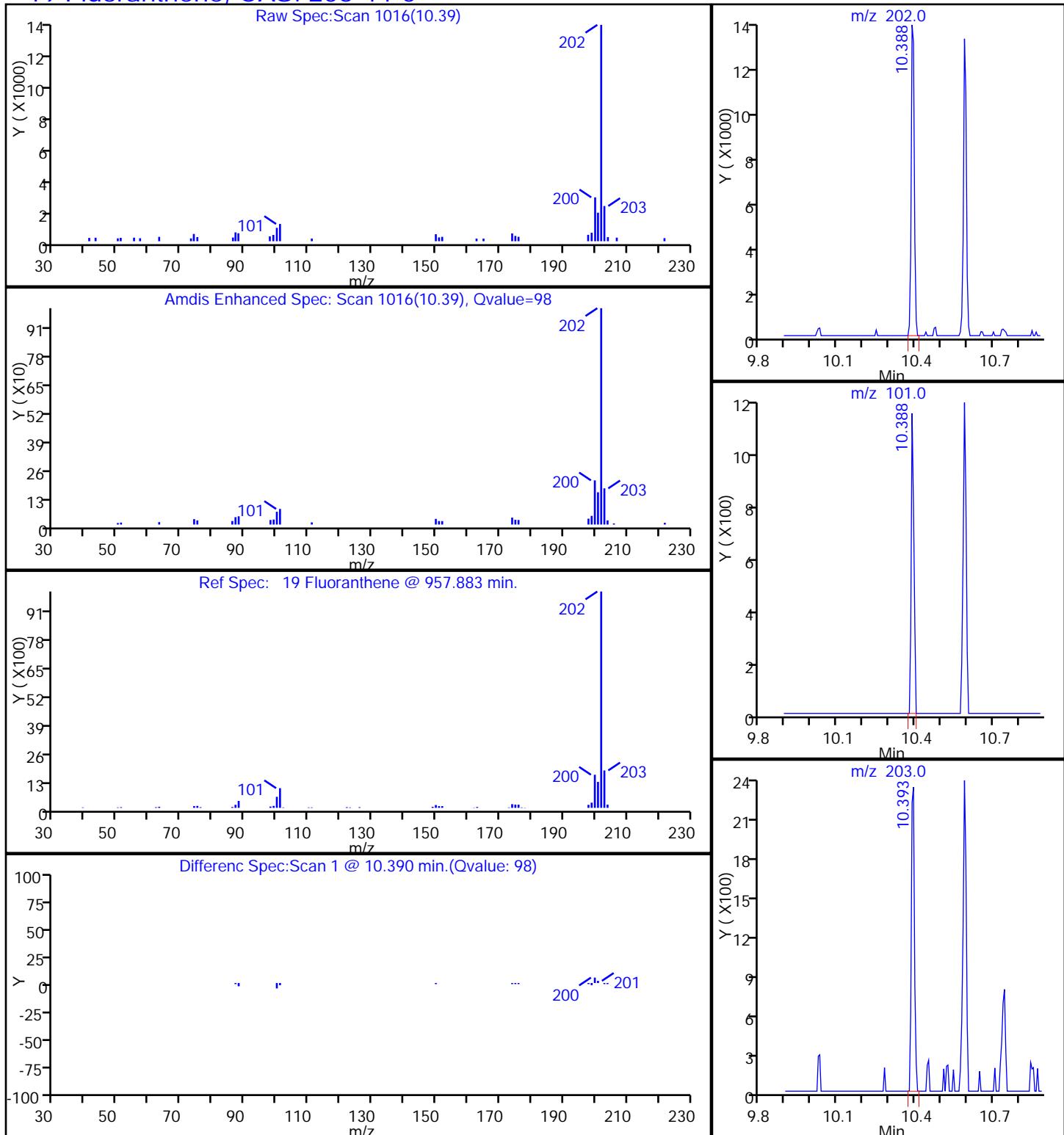
Dil. Factor: 10.0000

Method: 8270D\_LLPAH\_MSY

Limit Group: 8270D\_LL\_PAH

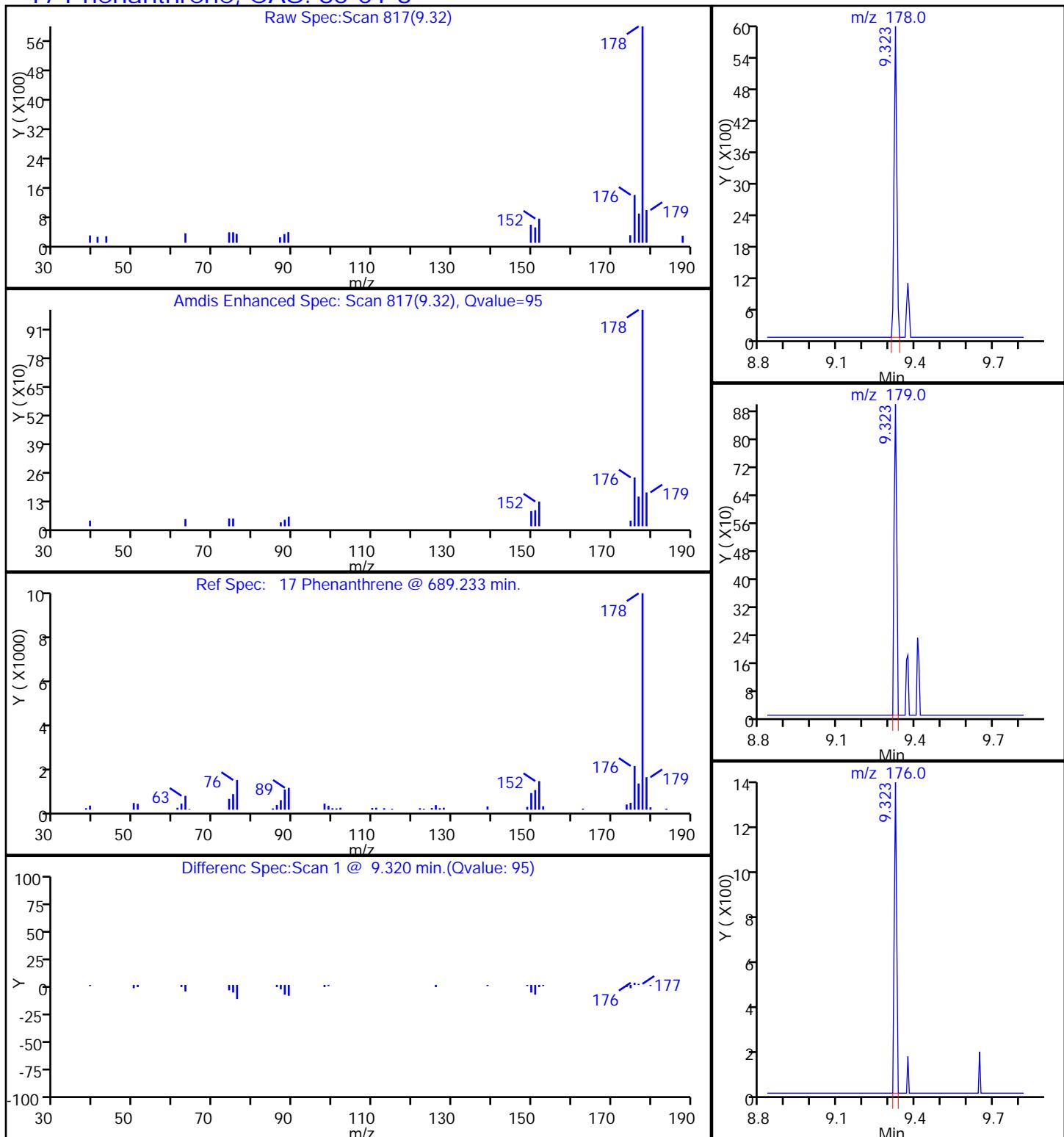
Column: Restek RXi-5Sil MS ( 0.25 mm)

Detector: MS SCAN

**19 Fluoranthene, CAS: 206-44-0**

TestAmerica Savannah  
 Data File: \\ChromNA\\Savannah\\ChromData\\CMSY\\20150818-22358.b\\1YF18018.D  
 Injection Date: 18-Aug-2015 19:45:30 Instrument ID: CMSY  
 Lims ID: 680-115692-A-10-A Lab Sample ID: 680-115692-10  
 Client ID: CV0511SS-CS-6  
 Operator ID: LIMS import ALS Bottle#: 18 Worklist Smp#: 18  
 Injection Vol: 2.0 ul Dil. Factor: 10.0000  
 Method: 8270D\_LLPAH\_MSY Limit Group: 8270D\_LL\_PAH  
 Column: Restek RXi-5Sil MS ( 0.25 mm) Detector: MS SCAN

### 17 Phenanthrene, CAS: 85-01-8



TestAmerica Savannah

Data File: \\ChromNA\\Savannah\\ChromData\\CMSY\\20150818-22358.b\\1YF18018.D

Injection Date: 18-Aug-2015 19:45:30

Instrument ID: CMSY

Lims ID: 680-115692-A-10-A

Lab Sample ID: 680-115692-10

Client ID: CV0511SS-CS-6

Operator ID: LIMS import

ALS Bottle#: 18 Worklist Smp#: 18

Injection Vol: 2.0 ul

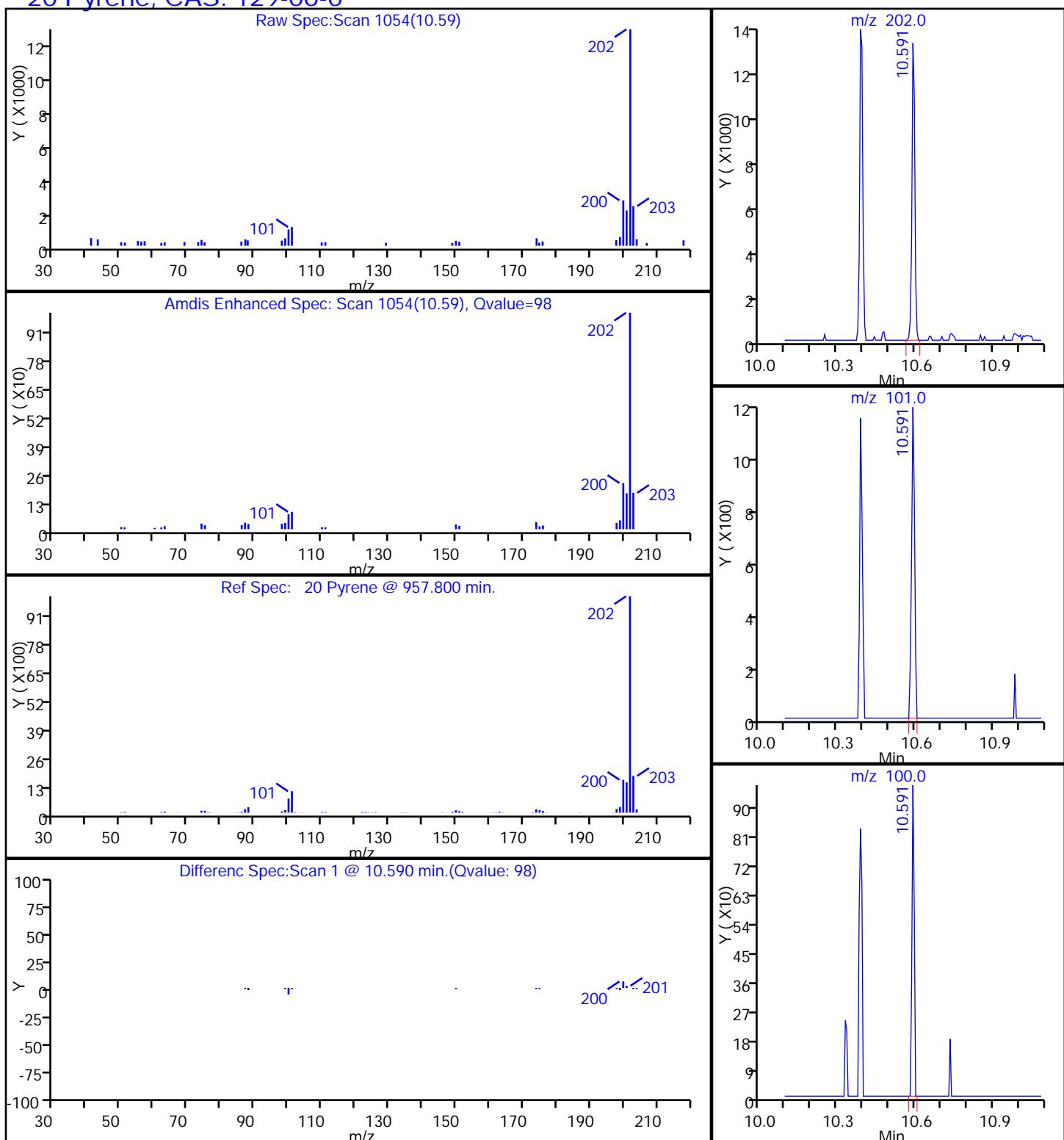
Dil. Factor: 10.0000

Method: 8270D\_LLPAH\_MSY

Limit Group: 8270D\_LL\_PAH

Column: Restek RXi-5Sil MS ( 0.25 mm)

Detector MS SCAN

**20 Pyrene, CAS: 129-00-0**

FORM I  
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Savannah	Job No.: 680-115692-1
SDG No.: 680-115692-01	
Client Sample ID: CV0511SS-CS-12	Lab Sample ID: 680-115692-11
Matrix: Solid	Lab File ID: 1YF18019.D
Analysis Method: 8270D_LL_PAH	Date Collected: 08/10/2015 15:40
Extract. Method: 3546	Date Extracted: 08/17/2015 10:44
Sample wt/vol: 30.31(g)	Date Analyzed: 08/18/2015 20:13
Con. Extract Vol.: 1(mL)	Dilution Factor: 10
Injection Volume: 2(uL)	Level: (low/med) Low
% Moisture: 13.6	GPC Cleanup: (Y/N) N
Analysis Batch No.: 396712	Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	68	J	77	38
208-96-8	Acenaphthylene	77	U	77	38
120-12-7	Anthracene	110		77	38
56-55-3	Benzo[a]anthracene	420		77	38
50-32-8	Benzo[a]pyrene	380		77	14
205-99-2	Benzo[b]fluoranthene	600		77	38
191-24-2	Benzo[g,h,i]perylene	170		77	38
207-08-9	Benzo[k]fluoranthene	270		77	23
218-01-9	Chrysene	430		77	38
53-70-3	Dibenz(a,h)anthracene	58	J	77	38
206-44-0	Fluoranthene	1000		77	38
86-73-7	Fluorene	47	J	77	38
193-39-5	Indeno[1,2,3-cd]pyrene	130		77	38
90-12-0	1-Methylnaphthalene	77	U	77	36
91-57-6	2-Methylnaphthalene	77	U	77	38
91-20-3	Naphthalene	77	U	77	38
85-01-8	Phenanthrene	600		77	27
129-00-0	Pyrene	730		77	38

CAS NO.	SURROGATE	%REC	Q	LIMITS
84-15-1	o-Terphenyl	0	D	36-131

TestAmerica Savannah  
Target Compound Quantitation Report

Data File: \\ChromNA\Savannah\ChromData\CMSY\20150818-22358.b\1YF18019.D  
 Lims ID: 680-115692-A-11-A Lab Sample ID: 680-115692-11  
 Client ID: CV0511SS-CS-12  
 Sample Type: Client  
 Inject. Date: 18-Aug-2015 20:13:30 ALS Bottle#: 19 Worklist Smp#: 19  
 Injection Vol: 2.0 ul Dil. Factor: 10.0000  
 Sample Info: 680-115692-A-11-A  
 Misc. Info.: 680-0022358-019  
 Operator ID: LIMS import Instrument ID: CMSY  
 Method: \\ChromNA\Savannah\ChromData\CMSY\20150818-22358.b\8270D\_LLPAH\_MSY.m  
 Limit Group: 8270D\_LL\_PAH  
 Last Update: 19-Aug-2015 11:22:28 Calib Date: 12-Aug-2015 16:37:30  
 Integrator: RTE ID Type: Deconvolution ID  
 Quant Method: Internal Standard Quant By: Initial Calibration  
 Last ICAL File: \\ChromNA\Savannah\ChromData\CMSY\20150812-22174.b\1YF12008.D  
 Column 1 : Restek RXi-5Sil MS ( 0.25 mm) Det: MS SCAN  
 Process Host: XAWRK003

First Level Reviewer: millsj Date: 19-Aug-2015 11:13:35

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/ml	Flags
* 1 Naphthalene-d8	136	6.366	6.366	0.000	99	48852	2.00	
* 2 Acenaphthene-d10	164	7.970	7.975	-0.005	97	26423	2.00	
* 3 Phenanthrene-d10	188	9.302	9.307	-0.005	97	57770	2.00	
* 4 Chrysene-d12	240	11.757	11.773	-0.016	98	84266	2.00	
* 5 Perylene-d12	264	13.527	13.538	-0.011	98	74892	2.00	
12 Acenaphthylene	152	7.847	7.847	0.000	95	1710	0.0708	
14 Acenaphthene	153	8.002	8.002	0.000	95	2813	0.1781	
16 Fluorene	166	8.468	8.468	0.000	94	2226	0.1225	
17 Phenanthrene	178	9.323	9.329	-0.006	97	43370	1.57	
18 Anthracene	178	9.371	9.371	0.000	82	6900	0.2911	
19 Fluoranthene	202	10.393	10.398	-0.005	98	87410	2.64	
20 Pyrene	202	10.591	10.602	-0.011	98	70392	1.91	
21 Benzo[a]anthracene	228	11.746	11.762	-0.016	97	44986	1.11	
22 Chrysene	228	11.789	11.805	-0.016	99	43223	1.12	
23 Benzo[b]fluoranthene	252	13.025	13.041	-0.016	96	57636	1.57	
24 Benzo[k]fluoranthene	252	13.057	13.078	-0.021	1	25337	0.7092	
25 Benzo[a]pyrene	252	13.453	13.469	-0.017	98	33567	0.9862	
26 Indeno[1,2,3-cd]pyrene	276	15.014	15.025	-0.011	96	20637	0.3331	
27 Dibenz(a,h)anthracene	278	15.025	15.041	-0.016	40	6320	0.1522	
28 Benzo[g,h,i]perylene	276	15.383	15.399	-0.016	95	17639	0.4455	

**Reagents:**

SM-LLISTD\_00128 Amount Added: 10.00 Units: uL Run Reagent

Report Date: 19-Aug-2015 11:22:51

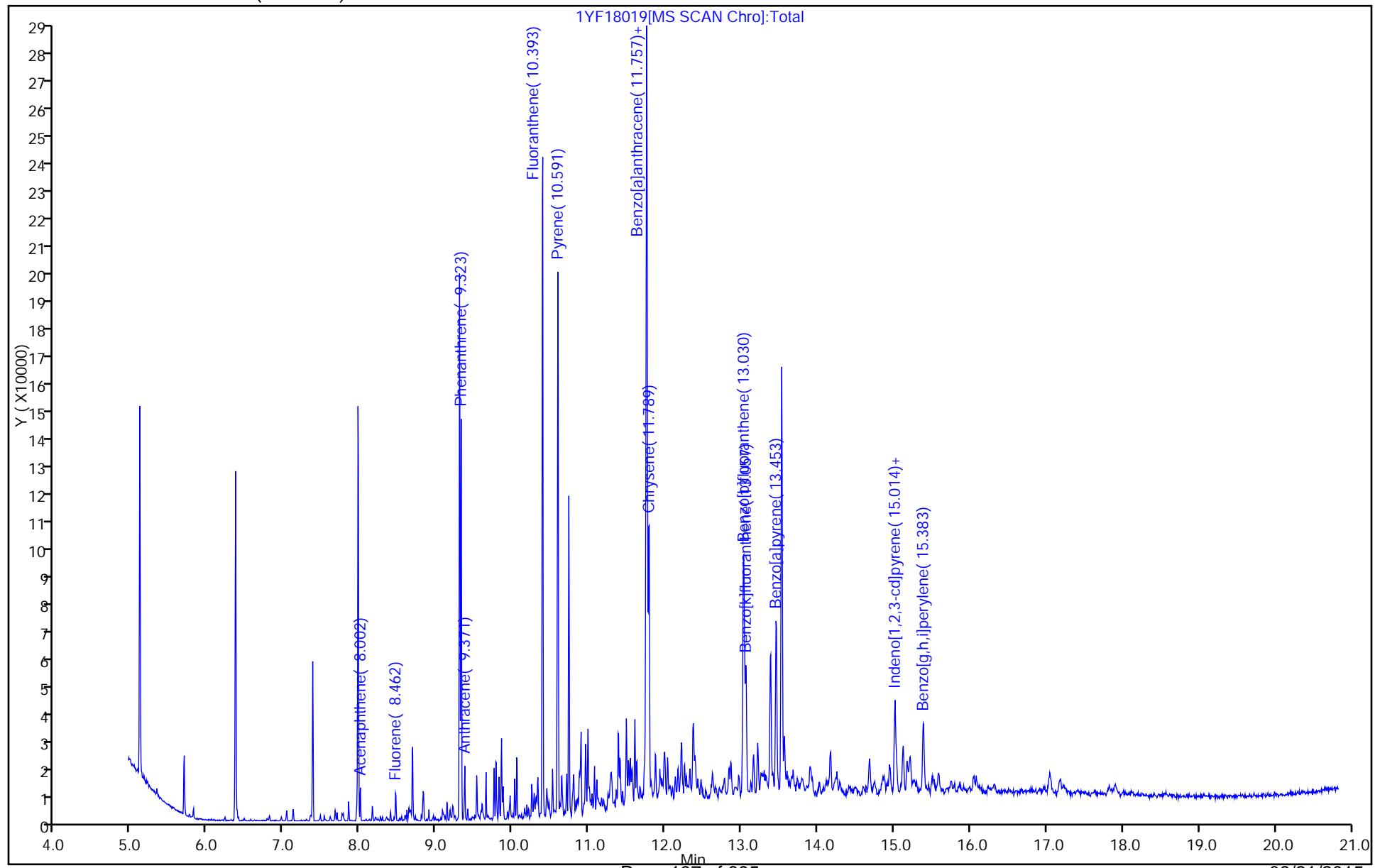
Chrom Revision: 2.2 23-Jul-2015 08:26:08

## TestAmerica Savannah

Data File: \\ChromNA\\Savannah\\ChromData\\CMSY\\20150818-22358.b\\1YF18019.D  
Injection Date: 18-Aug-2015 20:13:30 Instrument ID: CMSY  
Lims ID: 680-115692-A-11-A Lab Sample ID: 680-115692-11  
Client ID: CV0511SS-CS-12  
Injection Vol: 2.0 ul Dil. Factor: 10.0000  
Method: 8270D\_LLPAH\_MSY Limit Group: 8270D\_LL\_PAH  
Column: Restek RXi-5Sil MS ( 0.25 mm)

Operator ID: LIMS import  
Worklist Smp#: 19

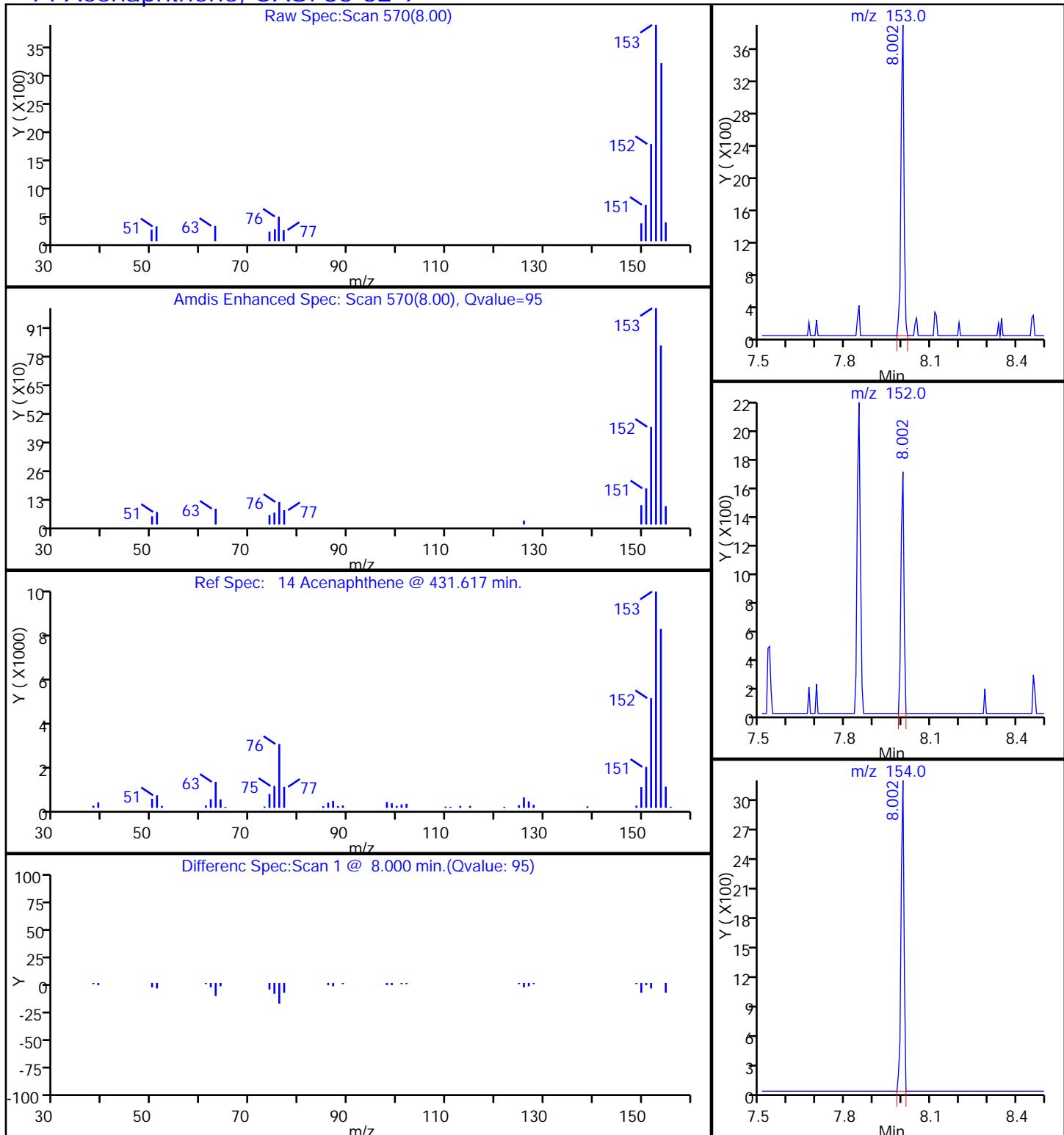
ALS Bottle#: 19



## TestAmerica Savannah

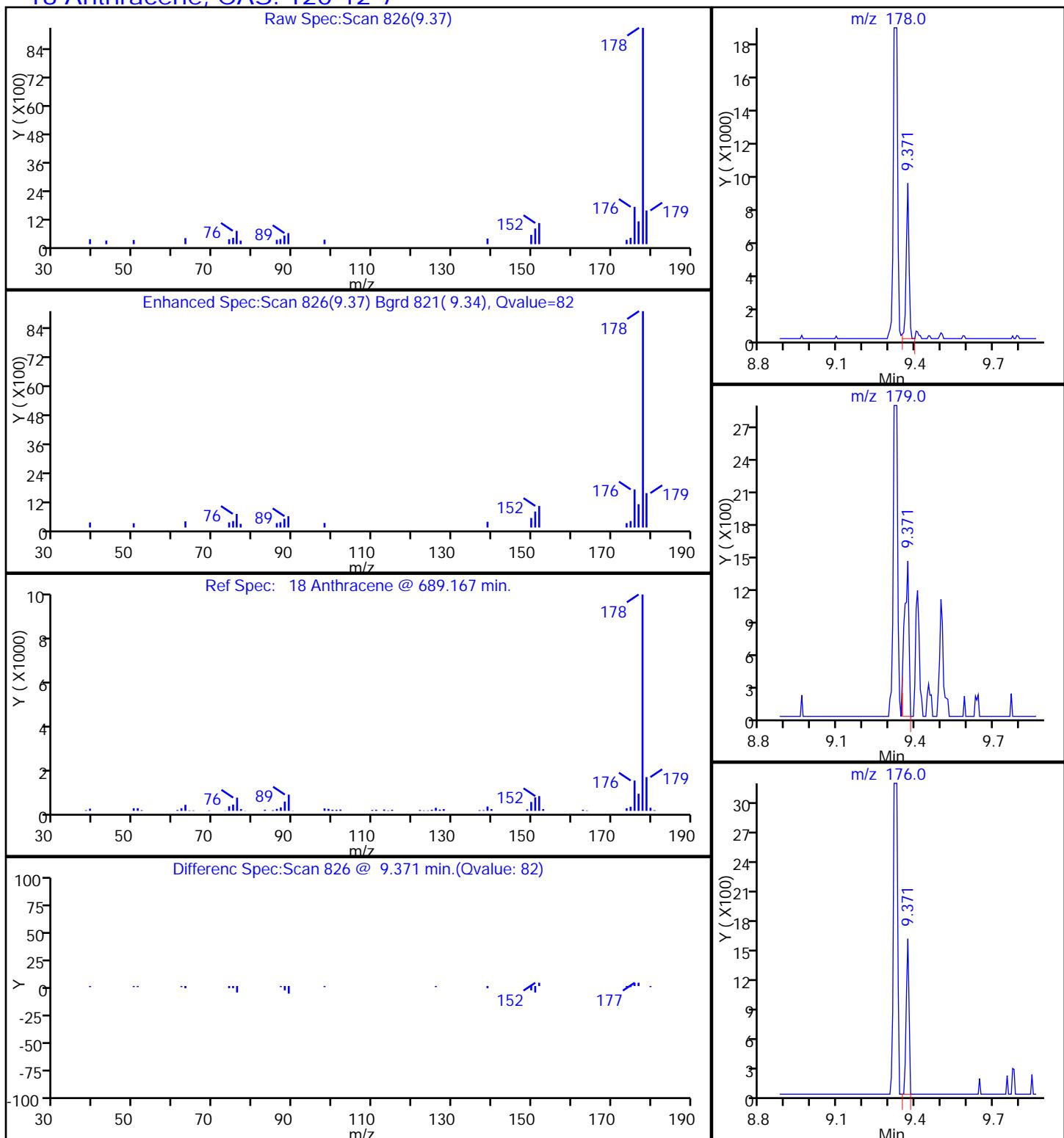
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 Injection Date: 18-Aug-2015 20:13:30 Instrument ID: CMSY  
 Lims ID: 680-115692-A-11-A Lab Sample ID: 680-115692-11  
 Client ID: CV0511SS-CS-12  
 Operator ID: LIMS import ALS Bottle#: 19 Worklist Smp#: 19  
 Injection Vol: 2.0 ul Dil. Factor: 10.0000  
 Method: 8270D\_LLPAH\_MSY Limit Group: 8270D\_LL\_PAH  
 Column: Restek RXi-5Sil MS ( 0.25 mm) Detector: MS SCAN

## 14 Acenaphthene, CAS: 83-32-9



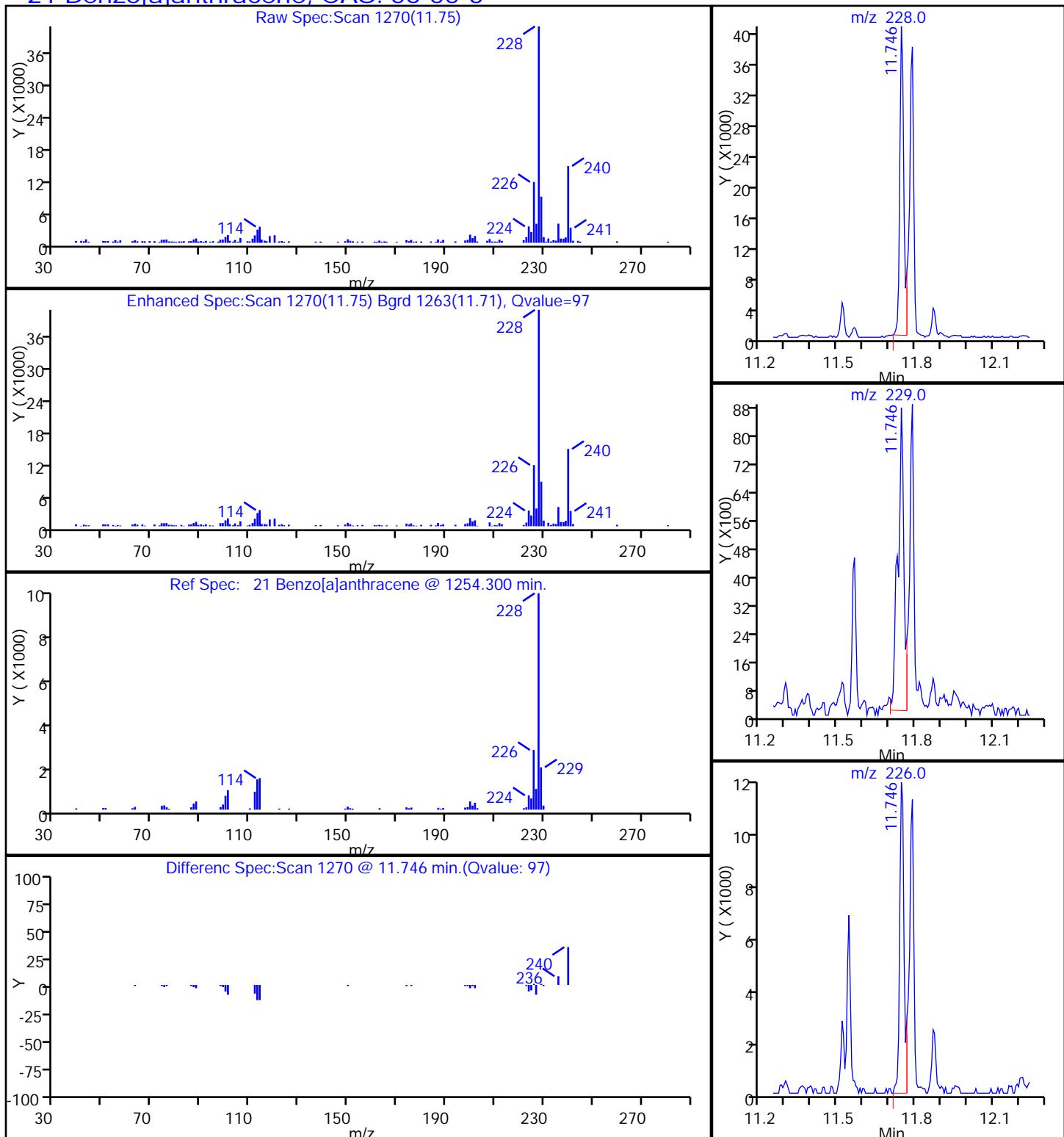
TestAmerica Savannah  
 Data File: \\ChromNA\\Savannah\\ChromData\\CMSY\\20150818-22358.b\\1YF18019.D  
 Injection Date: 18-Aug-2015 20:13:30 Instrument ID: CMSY  
 Lims ID: 680-115692-A-11-A Lab Sample ID: 680-115692-11  
 Client ID: CV0511SS-CS-12  
 Operator ID: LIMS import ALS Bottle#: 19 Worklist Smp#: 19  
 Injection Vol: 2.0 ul Dil. Factor: 10.0000  
 Method: 8270D\_LLPAH\_MSY Limit Group: 8270D\_LL\_PAH  
 Column: Restek RXi-5Sil MS ( 0.25 mm) Detector: MS SCAN

## 18 Anthracene, CAS: 120-12-7



TestAmerica Savannah  
 Data File: \\ChromNA\\Savannah\\ChromData\CMSY\\20150818-22358.b\\1YF18019.D  
 Injection Date: 18-Aug-2015 20:13:30 Instrument ID: CMSY  
 Lims ID: 680-115692-A-11-A Lab Sample ID: 680-115692-11  
 Client ID: CV0511SS-CS-12  
 Operator ID: LIMS import ALS Bottle#: 19 Worklist Smp#: 19  
 Injection Vol: 2.0 ul Dil. Factor: 10.0000  
 Method: 8270D\_LLPAH\_MSY Limit Group: 8270D\_LL\_PAH  
 Column: Restek RXi-5Sil MS ( 0.25 mm) Detector MS SCAN

### 21 Benzo[a]anthracene, CAS: 56-55-3



TestAmerica Savannah

Data File: \\ChromNA\\Savannah\\ChromData\CMSY\\20150818-22358.b\\1YF18019.D

Injection Date: 18-Aug-2015 20:13:30

Instrument ID: CMSY

Lims ID: 680-115692-A-11-A

Lab Sample ID: 680-115692-11

Client ID: CV0511SS-CS-12

Operator ID: LIMS import

ALS Bottle#: 19 Worklist Smp#: 19

Injection Vol: 2.0 ul

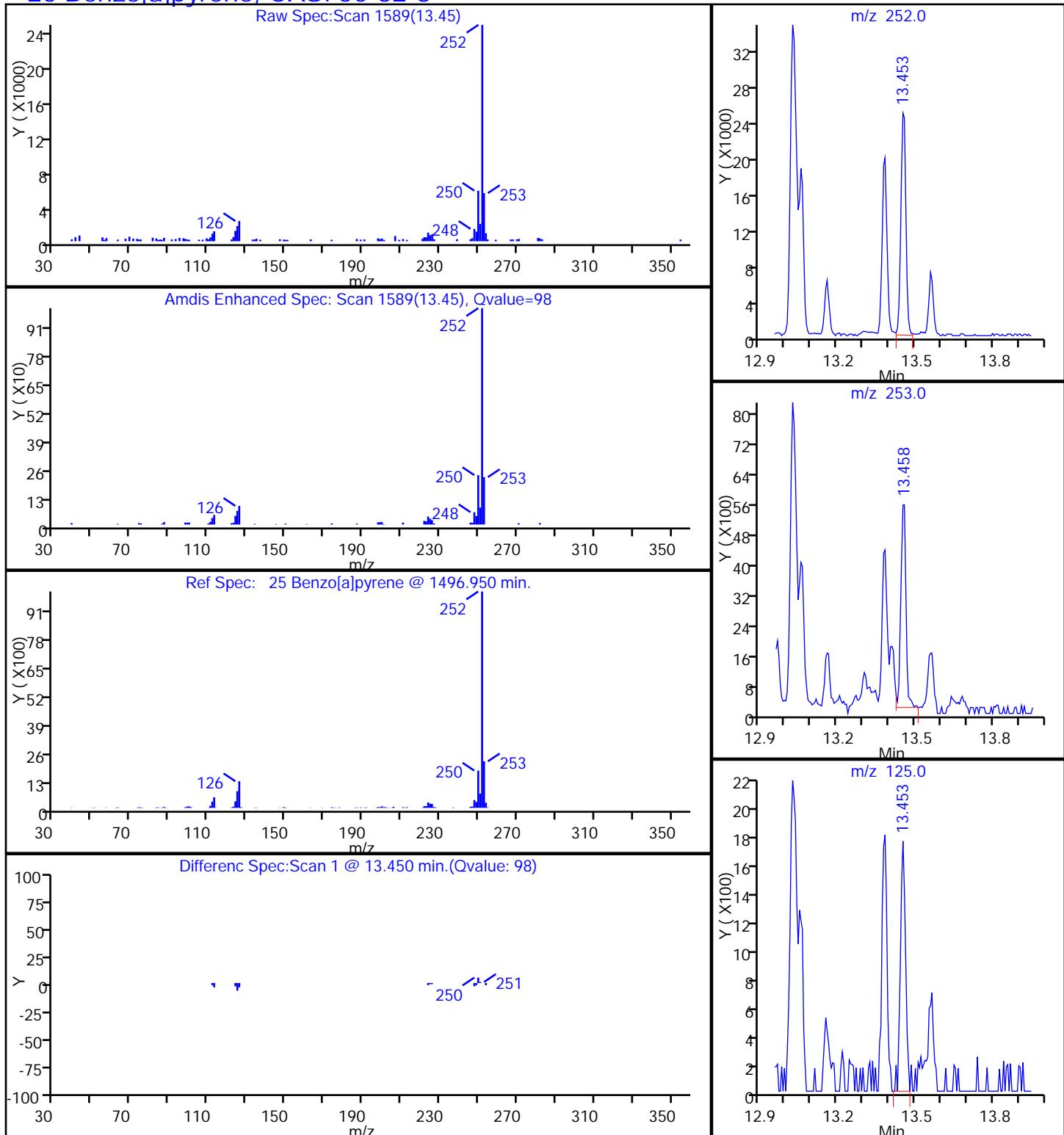
Dil. Factor: 10.0000

Method: 8270D\_LLPAH\_MSY

Limit Group: 8270D\_LL\_PAH

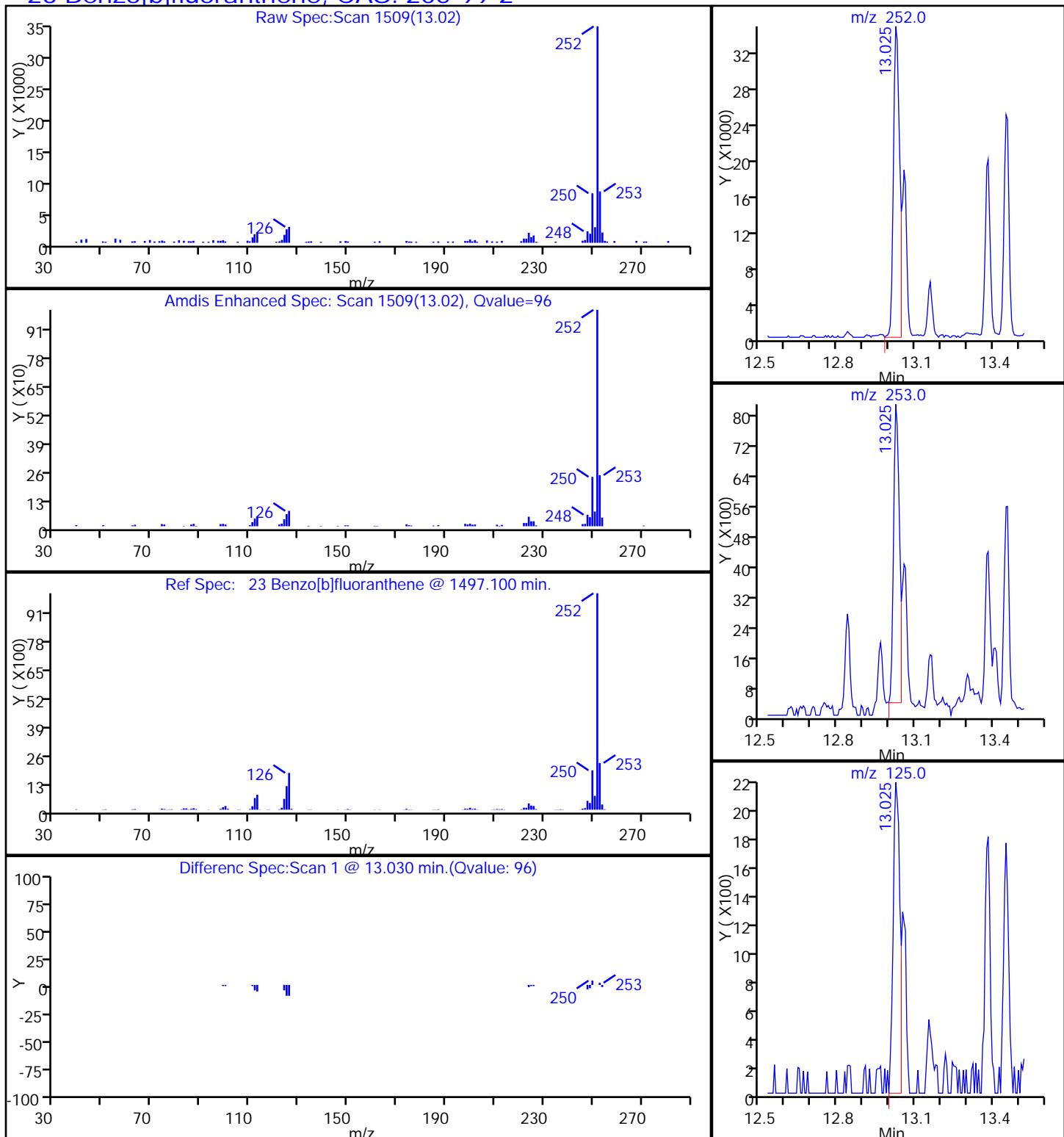
Column: Restek RXi-5Sil MS ( 0.25 mm)

Detector: MS SCAN

**25 Benzo[a]pyrene, CAS: 50-32-8**

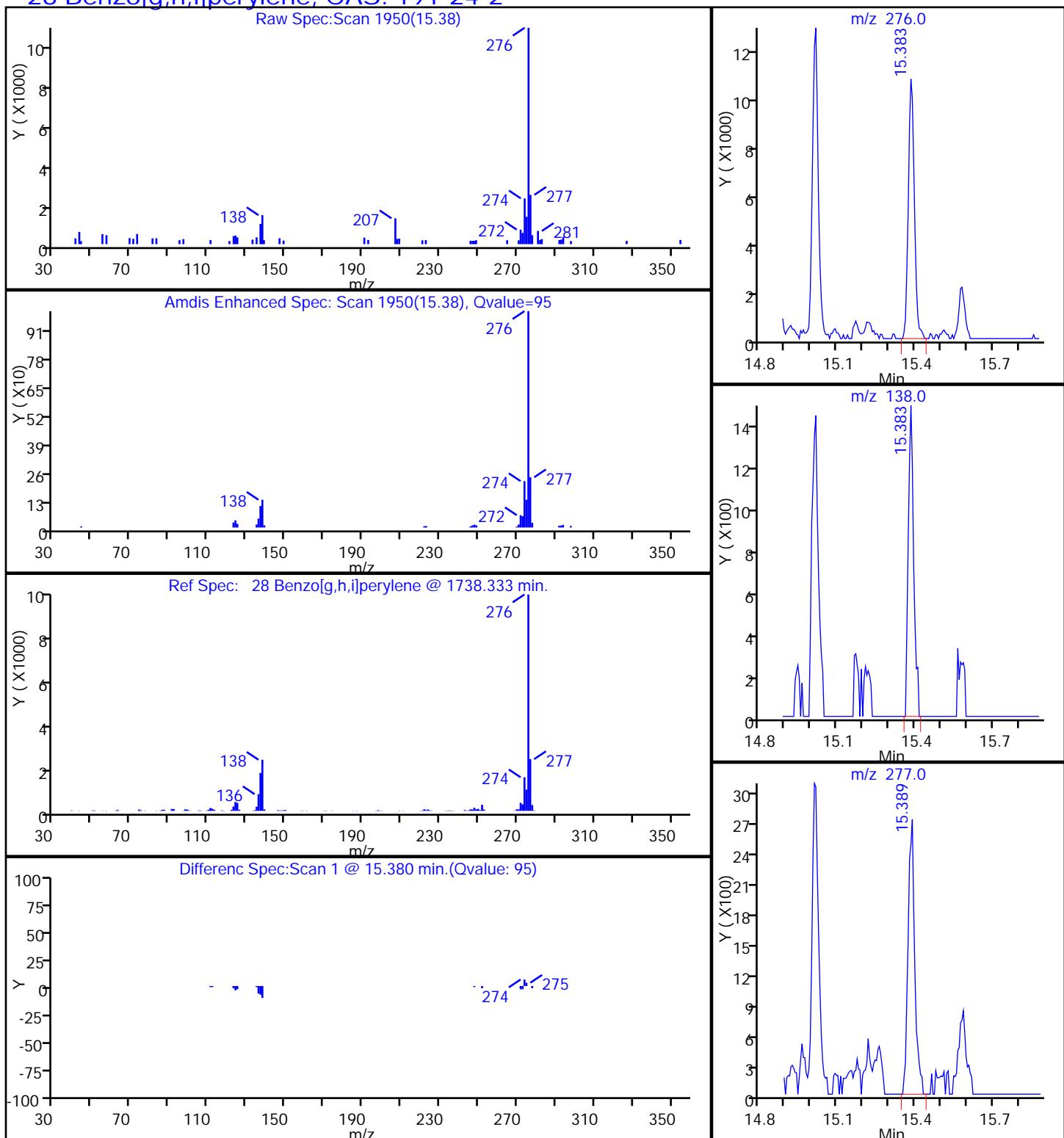
TestAmerica Savannah  
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 Injection Date: 18-Aug-2015 20:13:30 Instrument ID: CMSY  
 Lims ID: 680-115692-A-11-A Lab Sample ID: 680-115692-11  
 Client ID: CV0511SS-CS-12  
 Operator ID: LIMS import ALS Bottle#: 19 Worklist Smp#: 19  
 Injection Vol: 2.0 ul Dil. Factor: 10.0000  
 Method: 8270D\_LLPAH\_MSY Limit Group: 8270D\_LL\_PAH  
 Column: Restek RXi-5Sil MS ( 0.25 mm) Detector MS SCAN

### 23 Benzo[b]fluoranthene, CAS: 205-99-2



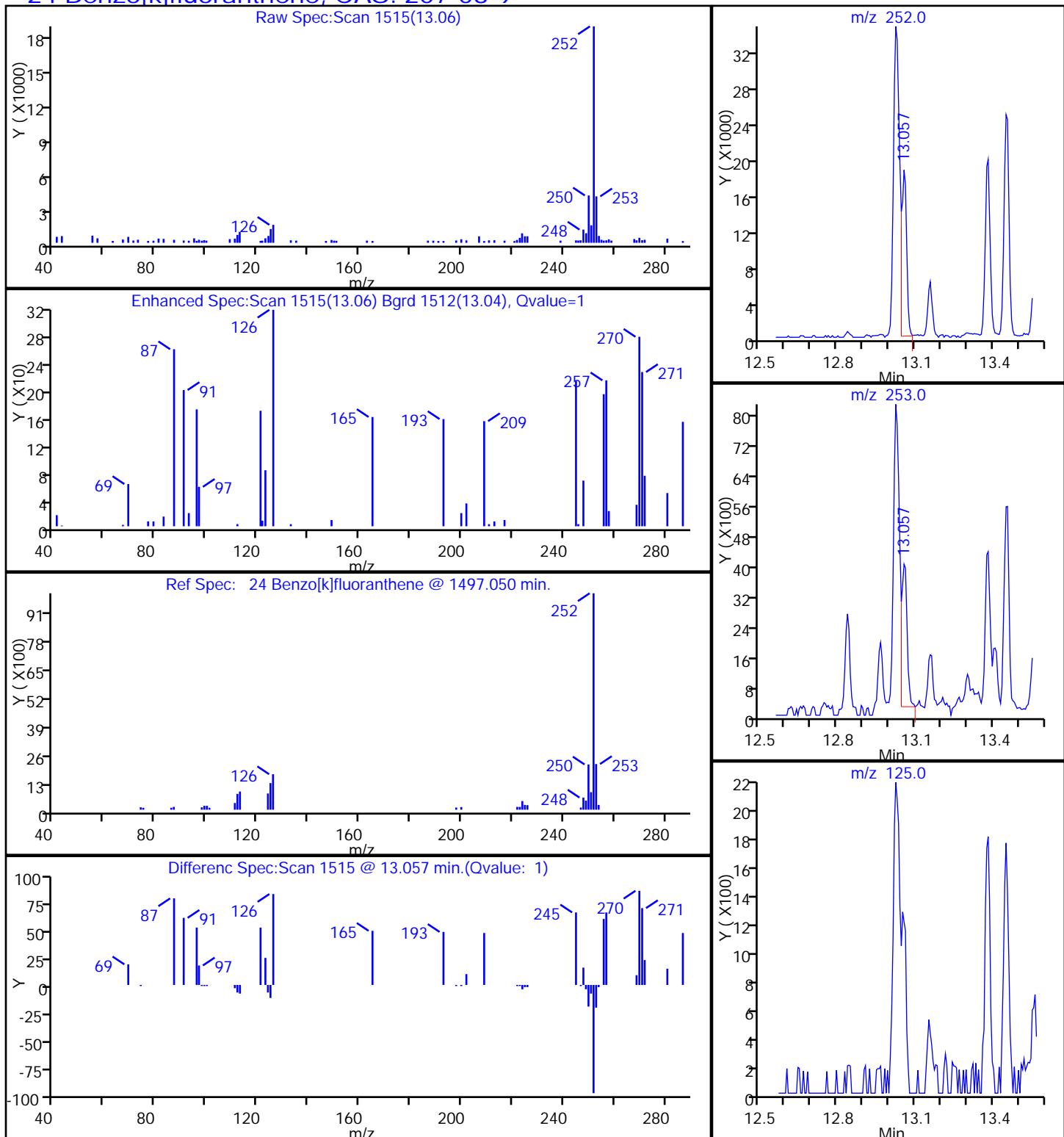
TestAmerica Savannah  
 Data File: \\ChromNA\\Savannah\\ChromData\CMSY\\20150818-22358.b\\1YF18019.D  
 Injection Date: 18-Aug-2015 20:13:30 Instrument ID: CMSY  
 Lims ID: 680-115692-A-11-A Lab Sample ID: 680-115692-11  
 Client ID: CV0511SS-CS-12  
 Operator ID: LIMS import ALS Bottle#: 19 Worklist Smp#: 19  
 Injection Vol: 2.0 ul Dil. Factor: 10.0000  
 Method: 8270D\_LLPAH\_MSY Limit Group: 8270D\_LL\_PAH  
 Column: Restek RXi-5Sil MS ( 0.25 mm) Detector MS SCAN

### 28 Benzo[g,h,i]perylene, CAS: 191-24-2



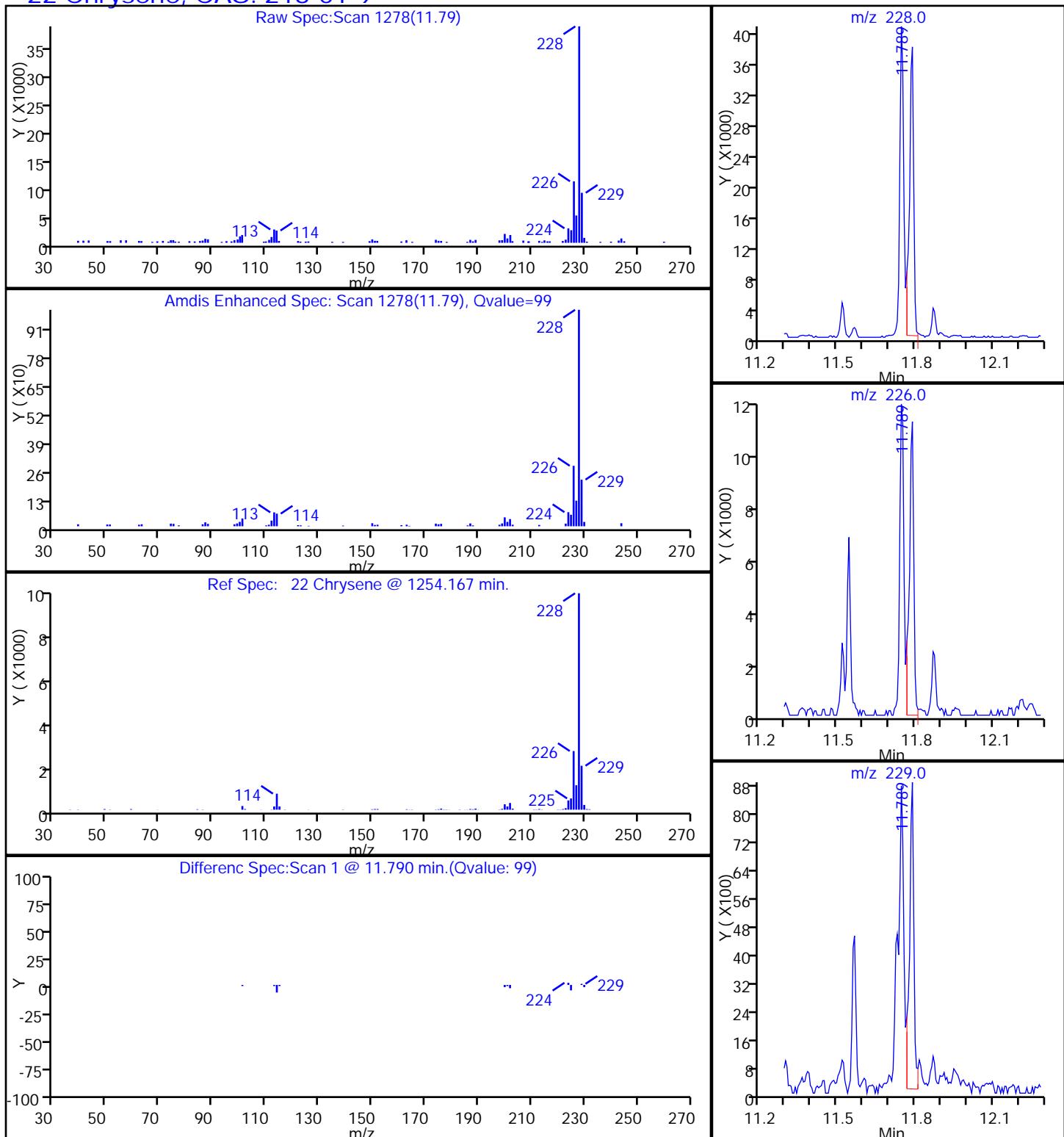
TestAmerica Savannah  
 Data File: \\ChromNA\\Savannah\\ChromData\CMSY\\20150818-22358.b\\1YF18019.D  
 Injection Date: 18-Aug-2015 20:13:30 Instrument ID: CMSY  
 Lims ID: 680-115692-A-11-A Lab Sample ID: 680-115692-11  
 Client ID: CV0511SS-CS-12  
 Operator ID: LIMS import ALS Bottle#: 19 Worklist Smp#: 19  
 Injection Vol: 2.0 ul Dil. Factor: 10.0000  
 Method: 8270D\_LLPAH\_MSY Limit Group: 8270D\_LL\_PAH  
 Column: Restek RXi-5Sil MS ( 0.25 mm) Detector MS SCAN

### 24 Benzo[k]fluoranthene, CAS: 207-08-9

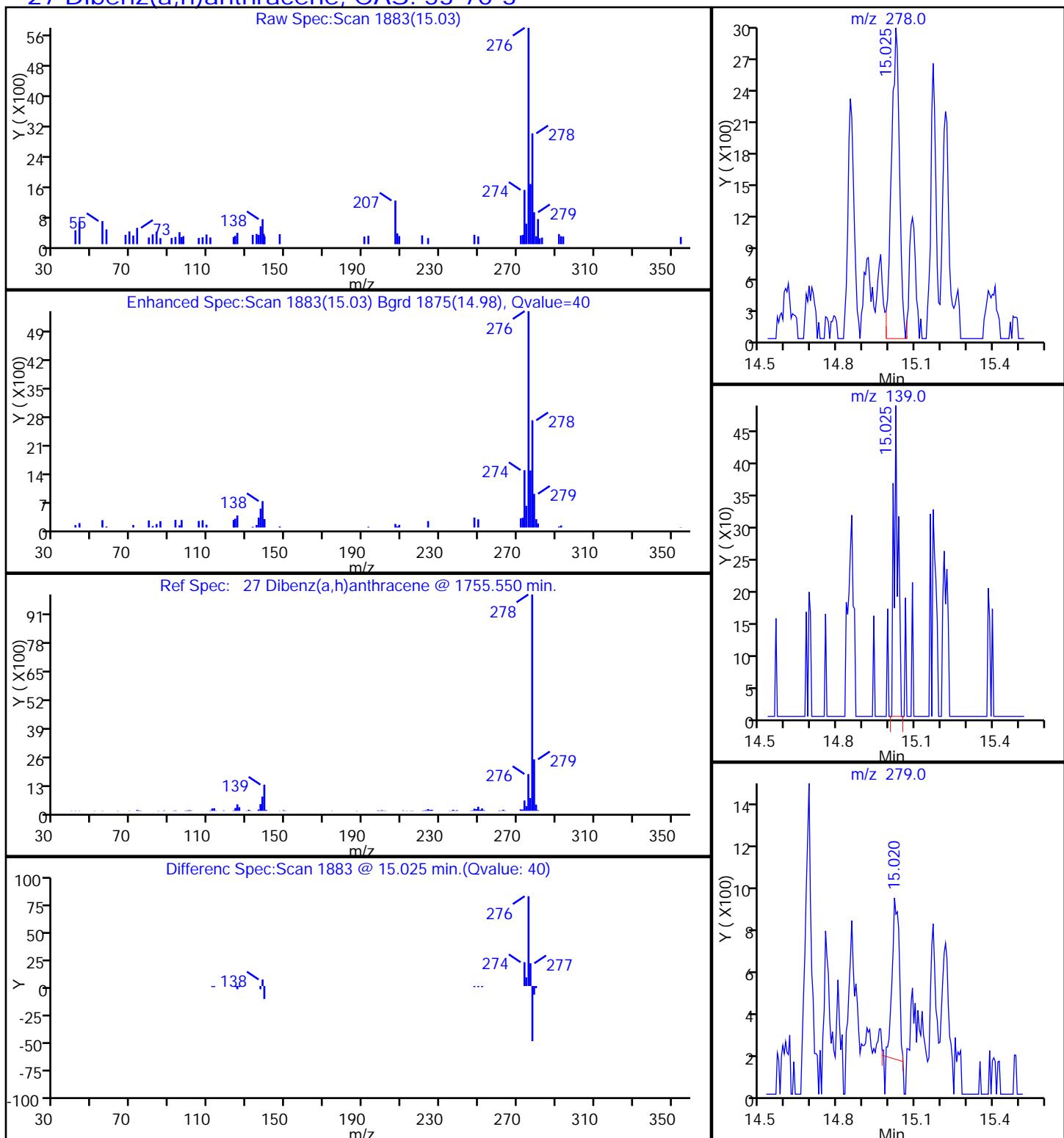


TestAmerica Savannah  
 Data File: \\ChromNA\\Savannah\\ChromData\\CMSY\\20150818-22358.b\\1YF18019.D  
 Injection Date: 18-Aug-2015 20:13:30 Instrument ID: CMSY  
 Lims ID: 680-115692-A-11-A Lab Sample ID: 680-115692-11  
 Client ID: CV0511SS-CS-12  
 Operator ID: LIMS import ALS Bottle#: 19 Worklist Smp#: 19  
 Injection Vol: 2.0 ul Dil. Factor: 10.0000  
 Method: 8270D\_LLPAH\_MSY Limit Group: 8270D\_LL\_PAH  
 Column: Restek RXi-5Sil MS ( 0.25 mm) Detector: MS SCAN

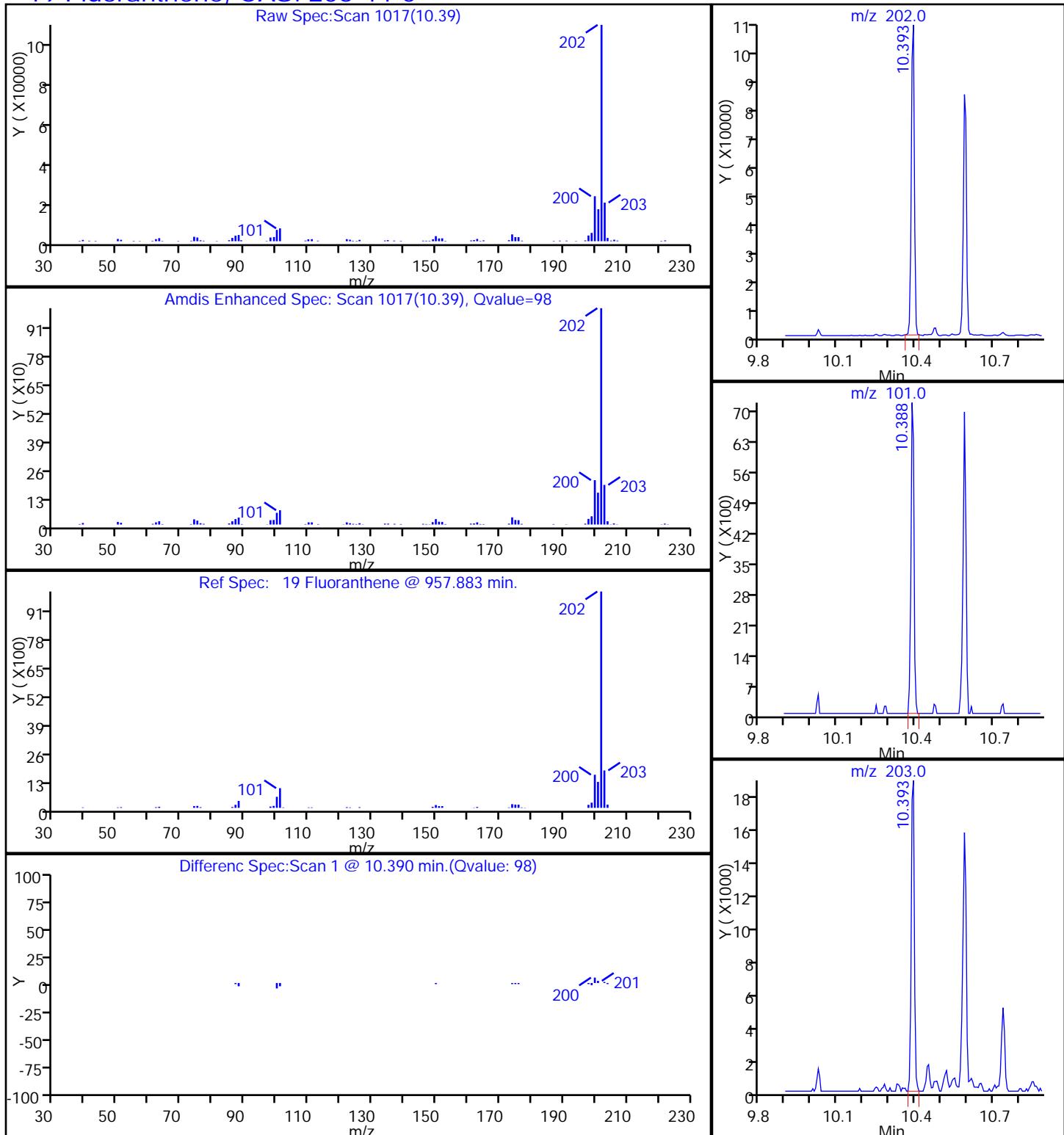
### 22 Chrysene, CAS: 218-01-9



TestAmerica Savannah  
 Data File: \\ChromNA\\Savannah\\ChromData\CMSY\\20150818-22358.b\\1YF18019.D  
 Injection Date: 18-Aug-2015 20:13:30 Instrument ID: CMSY  
 Lims ID: 680-115692-A-11-A Lab Sample ID: 680-115692-11  
 Client ID: CV0511SS-CS-12  
 Operator ID: LIMS import ALS Bottle#: 19 Worklist Smp#: 19  
 Injection Vol: 2.0 ul Dil. Factor: 10.0000  
 Method: 8270D\_LLPAH\_MSY Limit Group: 8270D\_LL\_PAH  
 Column: Restek RXi-5Sil MS ( 0.25 mm) Detector MS SCAN

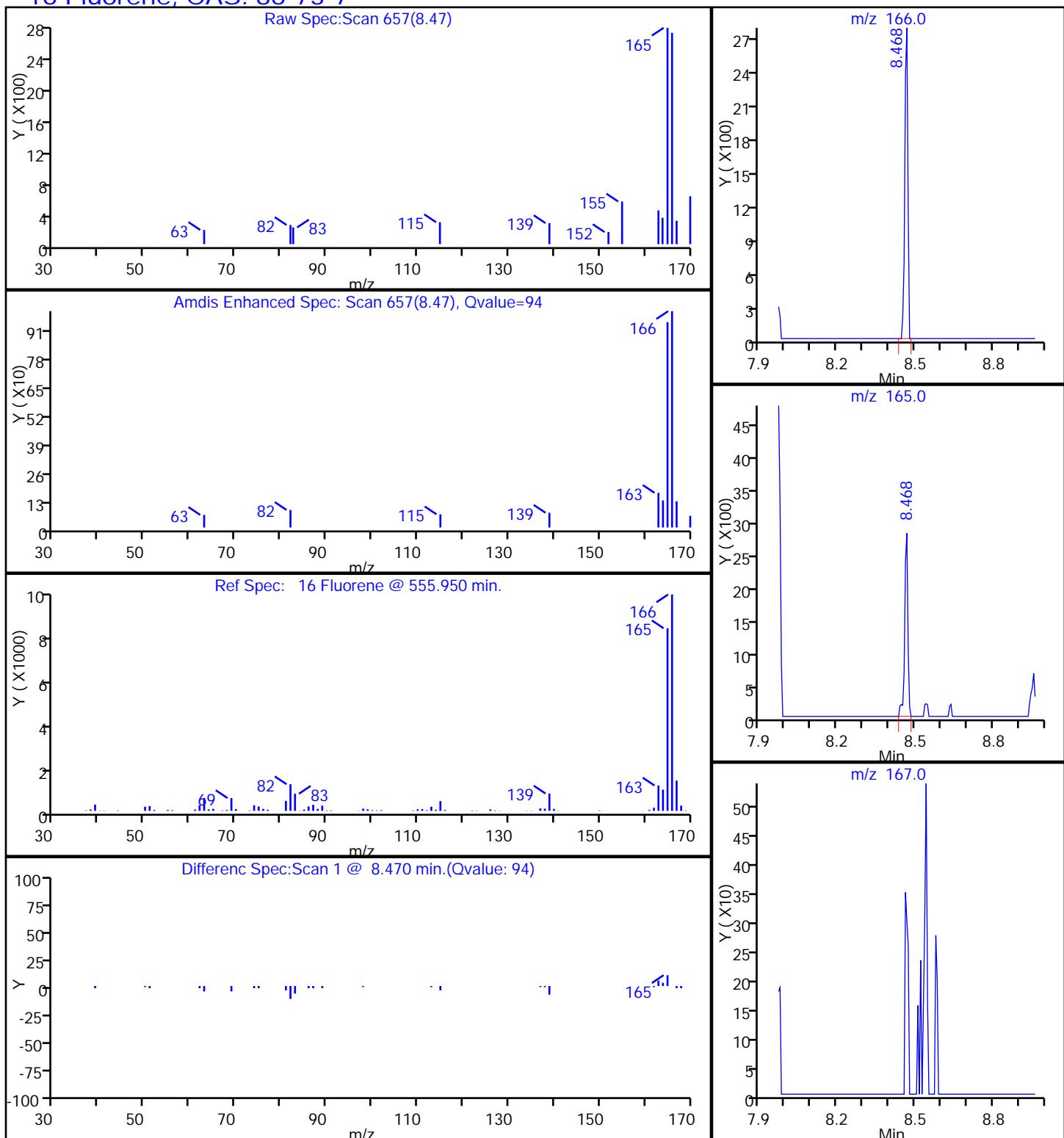
**27 Dibenz(a,h)anthracene, CAS: 53-70-3**

TestAmerica Savannah  
 Data File: \\ChromNA\\Savannah\\ChromData\\CMSY\\20150818-22358.b\\1YF18019.D  
 Injection Date: 18-Aug-2015 20:13:30 Instrument ID: CMSY  
 Lims ID: 680-115692-A-11-A Lab Sample ID: 680-115692-11  
 Client ID: CV0511SS-CS-12  
 Operator ID: LIMS import ALS Bottle#: 19 Worklist Smp#: 19  
 Injection Vol: 2.0 ul Dil. Factor: 10.0000  
 Method: 8270D\_LLPAH\_MSY Limit Group: 8270D\_LL\_PAH  
 Column: Restek RXi-5Sil MS ( 0.25 mm) Detector MS SCAN

**19 Fluoranthene, CAS: 206-44-0**

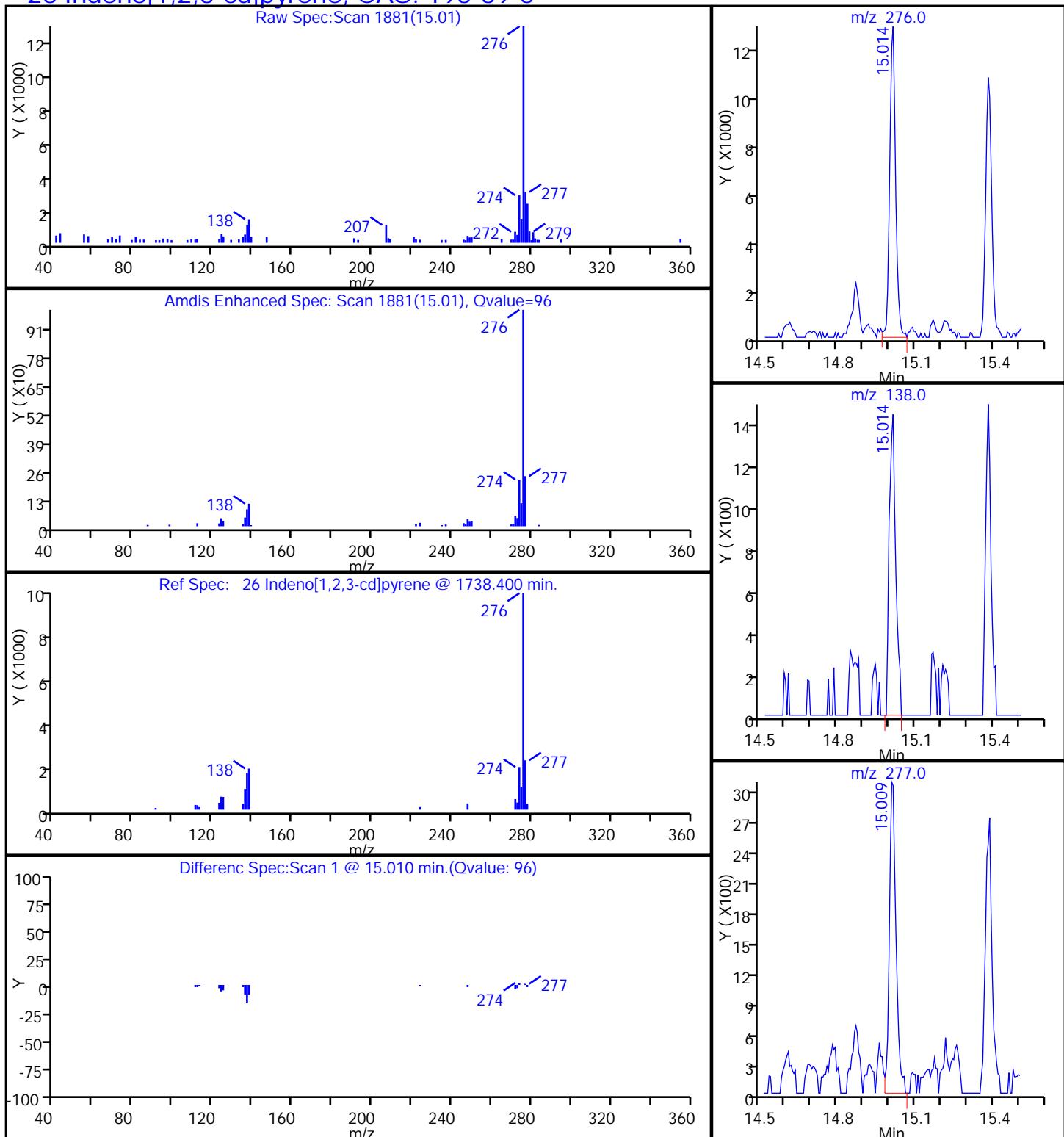
TestAmerica Savannah  
 Data File: \\ChromNA\\Savannah\\ChromData\\CMSY\\20150818-22358.b\\1YF18019.D  
 Injection Date: 18-Aug-2015 20:13:30 Instrument ID: CMSY  
 Lims ID: 680-115692-A-11-A Lab Sample ID: 680-115692-11  
 Client ID: CV0511SS-CS-12  
 Operator ID: LIMS import ALS Bottle#: 19 Worklist Smp#: 19  
 Injection Vol: 2.0 ul Dil. Factor: 10.0000  
 Method: 8270D\_LLPAH\_MSY Limit Group: 8270D\_LL\_PAH  
 Column: Restek RXi-5Sil MS ( 0.25 mm) Detector: MS SCAN

## 16 Fluorene, CAS: 86-73-7



TestAmerica Savannah  
 Data File: \\ChromNA\\Savannah\\ChromData\CMSY\\20150818-22358.b\\1YF18019.D  
 Injection Date: 18-Aug-2015 20:13:30 Instrument ID: CMSY  
 Lims ID: 680-115692-A-11-A Lab Sample ID: 680-115692-11  
 Client ID: CV0511SS-CS-12  
 Operator ID: LIMS import ALS Bottle#: 19 Worklist Smp#: 19  
 Injection Vol: 2.0 ul Dil. Factor: 10.0000  
 Method: 8270D\_LLPAH\_MSY Limit Group: 8270D\_LL\_PAH  
 Column: Restek RXi-5Sil MS ( 0.25 mm) Detector MS SCAN

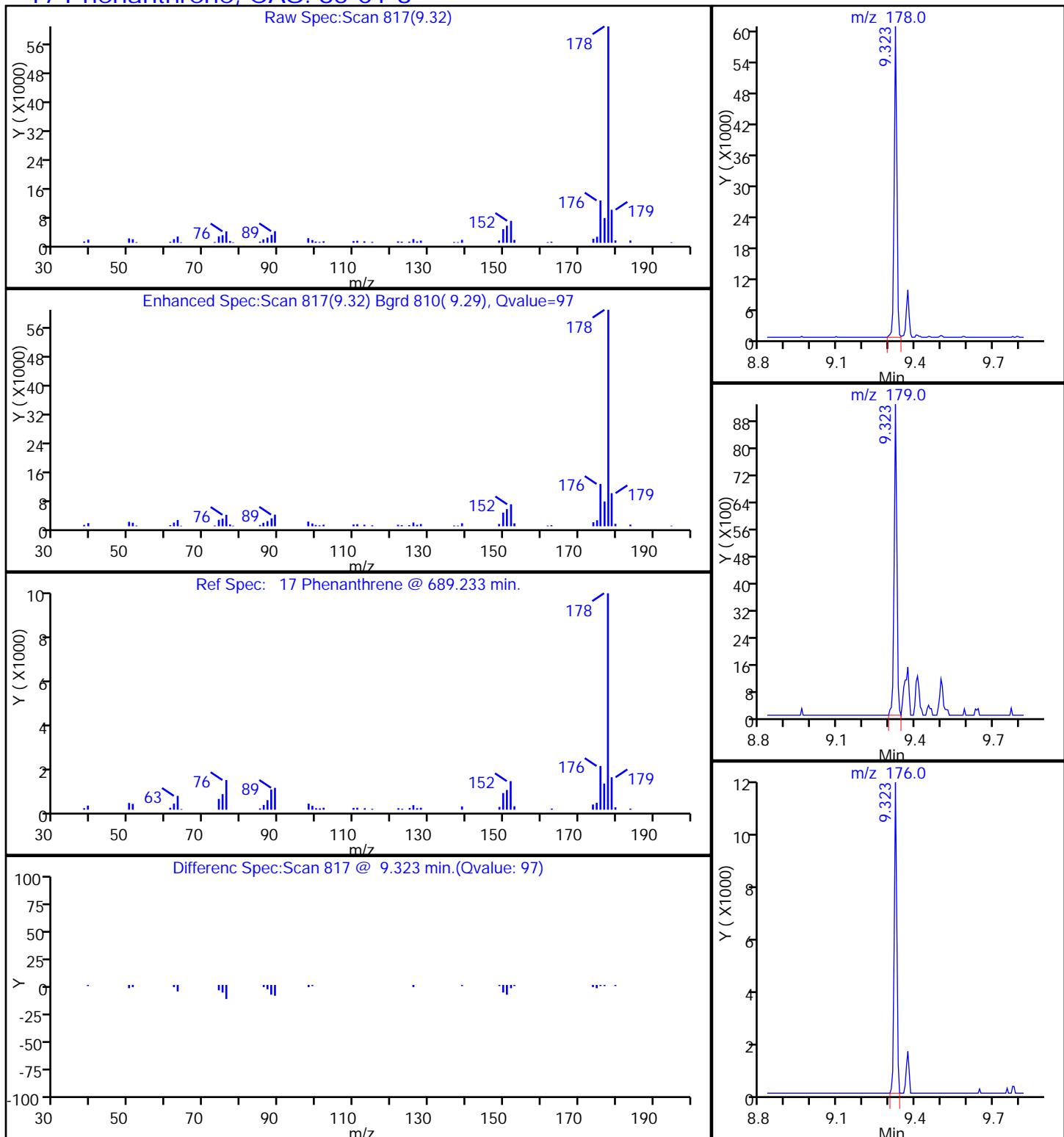
### 26 Indeno[1,2,3-cd]pyrene, CAS: 193-39-5



## TestAmerica Savannah

Data File: \\ChromNA\\Savannah\\ChromData\CMSY\\20150818-22358.b\\1YF18019.D  
 Injection Date: 18-Aug-2015 20:13:30 Instrument ID: CMSY  
 Lims ID: 680-115692-A-11-A Lab Sample ID: 680-115692-11  
 Client ID: CV0511SS-CS-12  
 Operator ID: LIMS import ALS Bottle#: 19 Worklist Smp#: 19  
 Injection Vol: 2.0 ul Dil. Factor: 10.0000  
 Method: 8270D\_LLPAH\_MSY Limit Group: 8270D\_LL\_PAH  
 Column: Restek RXi-5Sil MS ( 0.25 mm) Detector: MS SCAN

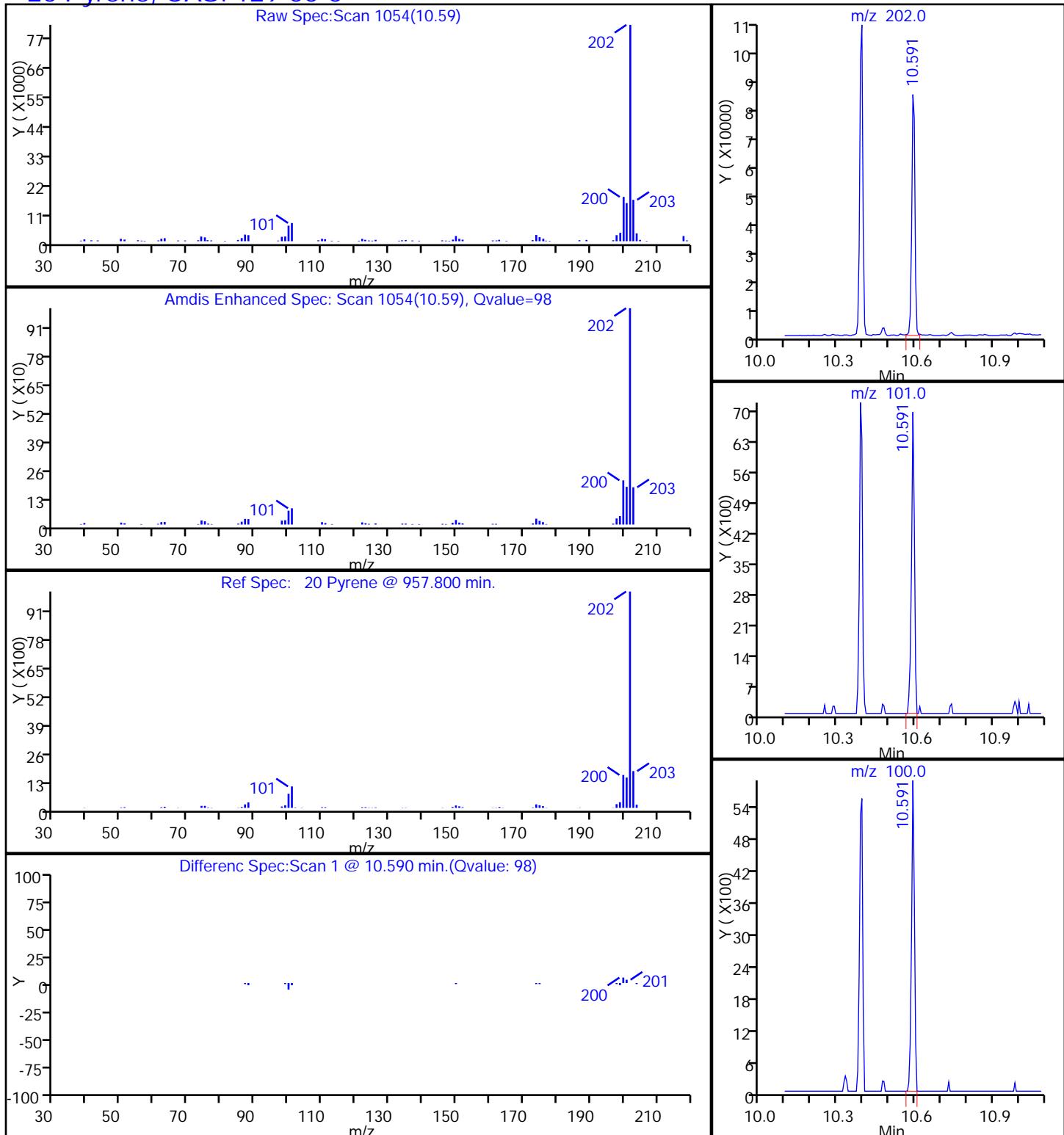
## 17 Phenanthrene, CAS: 85-01-8



## TestAmerica Savannah

Data File: \\ChromNA\\Savannah\\ChromData\CMSY\\20150818-22358.b\\1YF18019.D  
 Injection Date: 18-Aug-2015 20:13:30 Instrument ID: CMSY  
 Lims ID: 680-115692-A-11-A Lab Sample ID: 680-115692-11  
 Client ID: CV0511SS-CS-12  
 Operator ID: LIMS import ALS Bottle#: 19 Worklist Smp#: 19  
 Injection Vol: 2.0 ul Dil. Factor: 10.0000  
 Method: 8270D\_LLPAH\_MSY Limit Group: 8270D\_LL\_PAH  
 Column: Restek RXi-5Sil MS ( 0.25 mm) Detector MS SCAN

## 20 Pyrene, CAS: 129-00-0



FORM I  
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Savannah Job No.: 680-115692-1  
 SDG No.: 680-115692-01  
 Client Sample ID: CV0511SS-CS-18 Lab Sample ID: 680-115692-12  
 Matrix: Solid Lab File ID: 1YF18020.D  
 Analysis Method: 8270D\_LL\_PAH Date Collected: 08/10/2015 15:45  
 Extract. Method: 3546 Date Extracted: 08/17/2015 10:44  
 Sample wt/vol: 30.03(g) Date Analyzed: 08/18/2015 20:42  
 Con. Extract Vol.: 1(mL) Dilution Factor: 10  
 Injection Volume: 2(uL) Level: (low/med) Low  
 % Moisture: 16.0 GPC Cleanup: (Y/N) N  
 Analysis Batch No.: 396712 Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	80	U	80	39
208-96-8	Acenaphthylene	80	U	80	39
120-12-7	Anthracene	81		80	39
56-55-3	Benzo[a]anthracene	320		80	39
50-32-8	Benzo[a]pyrene	260		80	14
205-99-2	Benzo[b]fluoranthene	430		80	39
191-24-2	Benzo[g,h,i]perylene	130		80	39
207-08-9	Benzo[k]fluoranthene	190		80	24
218-01-9	Chrysene	310		80	39
53-70-3	Dibenz(a,h)anthracene	44	J	80	39
206-44-0	Fluoranthene	640		80	39
86-73-7	Fluorene	80	U	80	39
193-39-5	Indeno[1,2,3-cd]pyrene	88		80	39
90-12-0	1-Methylnaphthalene	80	U	80	37
91-57-6	2-Methylnaphthalene	45	J	80	39
91-20-3	Naphthalene	40	J	80	39
85-01-8	Phenanthrene	380		80	29
129-00-0	Pyrene	490		80	39

CAS NO.	SURROGATE	%REC	Q	LIMITS
84-15-1	o-Terphenyl	0	D	36-131

TestAmerica Savannah  
Target Compound Quantitation Report

Data File: \\ChromNA\Savannah\ChromData\CMSY\20150818-22358.b\1YF18020.D  
 Lims ID: 680-115692-A-12-A Lab Sample ID: 680-115692-12  
 Client ID: CV0511SS-CS-18  
 Sample Type: Client  
 Inject. Date: 18-Aug-2015 20:42:30 ALS Bottle#: 20 Worklist Smp#: 20  
 Injection Vol: 2.0 ul Dil. Factor: 10.0000  
 Sample Info: 680-115692-A-12-A  
 Misc. Info.: 680-0022358-020  
 Operator ID: LIMS import Instrument ID: CMSY  
 Method: \\ChromNA\Savannah\ChromData\CMSY\20150818-22358.b\8270D\_LLPAH\_MSY.m  
 Limit Group: 8270D\_LL\_PAH  
 Last Update: 19-Aug-2015 11:22:28 Calib Date: 12-Aug-2015 16:37:30  
 Integrator: RTE ID Type: Deconvolution ID  
 Quant Method: Internal Standard Quant By: Initial Calibration  
 Last ICAL File: \\ChromNA\Savannah\ChromData\CMSY\20150812-22174.b\1YF12008.D  
 Column 1 : Restek RXi-5Sil MS ( 0.25 mm) Det: MS SCAN  
 Process Host: XAWRK003

First Level Reviewer: millsj Date: 19-Aug-2015 11:14:31

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/ml	Flags
* 1 Naphthalene-d8	136	6.366	6.366	0.000	99	47288	2.00	
* 2 Acenaphthene-d10	164	7.970	7.975	-0.005	97	26512	2.00	
* 3 Phenanthrene-d10	188	9.302	9.307	-0.005	97	56959	2.00	
* 4 Chrysene-d12	240	11.757	11.773	-0.016	98	82178	2.00	
* 5 Perylene-d12	264	13.527	13.538	-0.011	99	71534	2.00	
7 Naphthalene	128	6.382	6.387	-0.005	48	2174	0.1018	
9 2-Methylnaphthalene	142	7.034	7.034	0.000	80	1722	0.1129	
14 Acenaphthene	153	8.002	8.002	0.000	89	1257	0.0793	
17 Phenanthrene	178	9.323	9.329	-0.006	96	25747	0.9458	
18 Anthracene	178	9.372	9.371	0.001	73	4792	0.2050	
19 Fluoranthene	202	10.388	10.398	-0.010	98	52833	1.62	
20 Pyrene	202	10.591	10.602	-0.011	98	44245	1.23	
21 Benzo[a]anthracene	228	11.746	11.762	-0.016	97	31741	0.8026	
22 Chrysene	228	11.789	11.805	-0.016	99	29370	0.7769	
23 Benzo[b]fluoranthene	252	13.025	13.041	-0.016	97	38304	1.10	
24 Benzo[k]fluoranthene	252	13.057	13.078	-0.021	96	16111	0.4721	
25 Benzo[a]pyrene	252	13.453	13.469	-0.016	98	21599	0.6644	
26 Indeno[1,2,3-cd]pyrene	276	15.014	15.025	-0.011	95	13334	0.2207	
27 Dibenz(a,h)anthracene	278	15.025	15.041	-0.016	39	4372	0.1102	
28 Benzo[g,h,i]perylene	276	15.383	15.399	-0.016	95	12479	0.3300	

**Reagents:**

SM-LLISTD\_00128 Amount Added: 10.00 Units: uL Run Reagent

Report Date: 19-Aug-2015 11:22:53

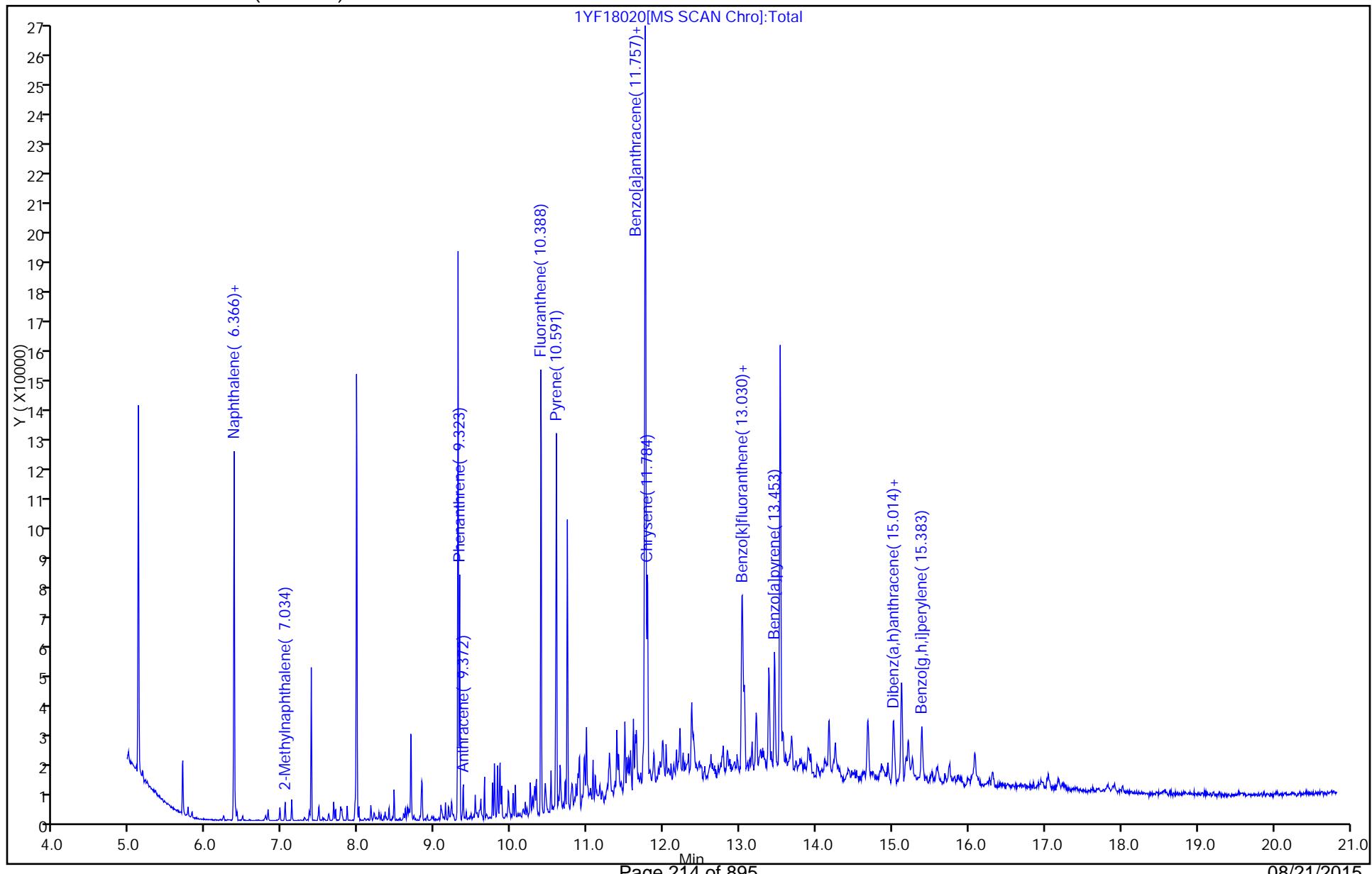
Chrom Revision: 2.2 23-Jul-2015 08:26:08

## TestAmerica Savannah

Data File: \\ChromNA\\Savannah\\ChromData\\CMSY\\20150818-22358.b\\1YF18020.D  
Injection Date: 18-Aug-2015 20:42:30 Instrument ID: CMSY  
Lims ID: 680-115692-A-12-A Lab Sample ID: 680-115692-12  
Client ID: CV0511SS-CS-18  
Injection Vol: 2.0 ul Dil. Factor: 10.0000  
Method: 8270D\_LLPAH\_MSY Limit Group: 8270D\_LL\_PAH  
Column: Restek RXi-5Sil MS ( 0.25 mm)

Operator ID: LIMS import  
Worklist Smp#: 20

ALS Bottle#: 20



TestAmerica Savannah

Data File: \\ChromNA\\Savannah\\ChromData\CMSY\\20150818-22358.b\\1YF18020.D

Injection Date: 18-Aug-2015 20:42:30

Instrument ID: CMSY

Lims ID: 680-115692-A-12-A

Lab Sample ID: 680-115692-12

Client ID: CV0511SS-CS-18

Operator ID: LIMS import

ALS Bottle#: 20 Worklist Smp#: 20

Injection Vol: 2.0 ul

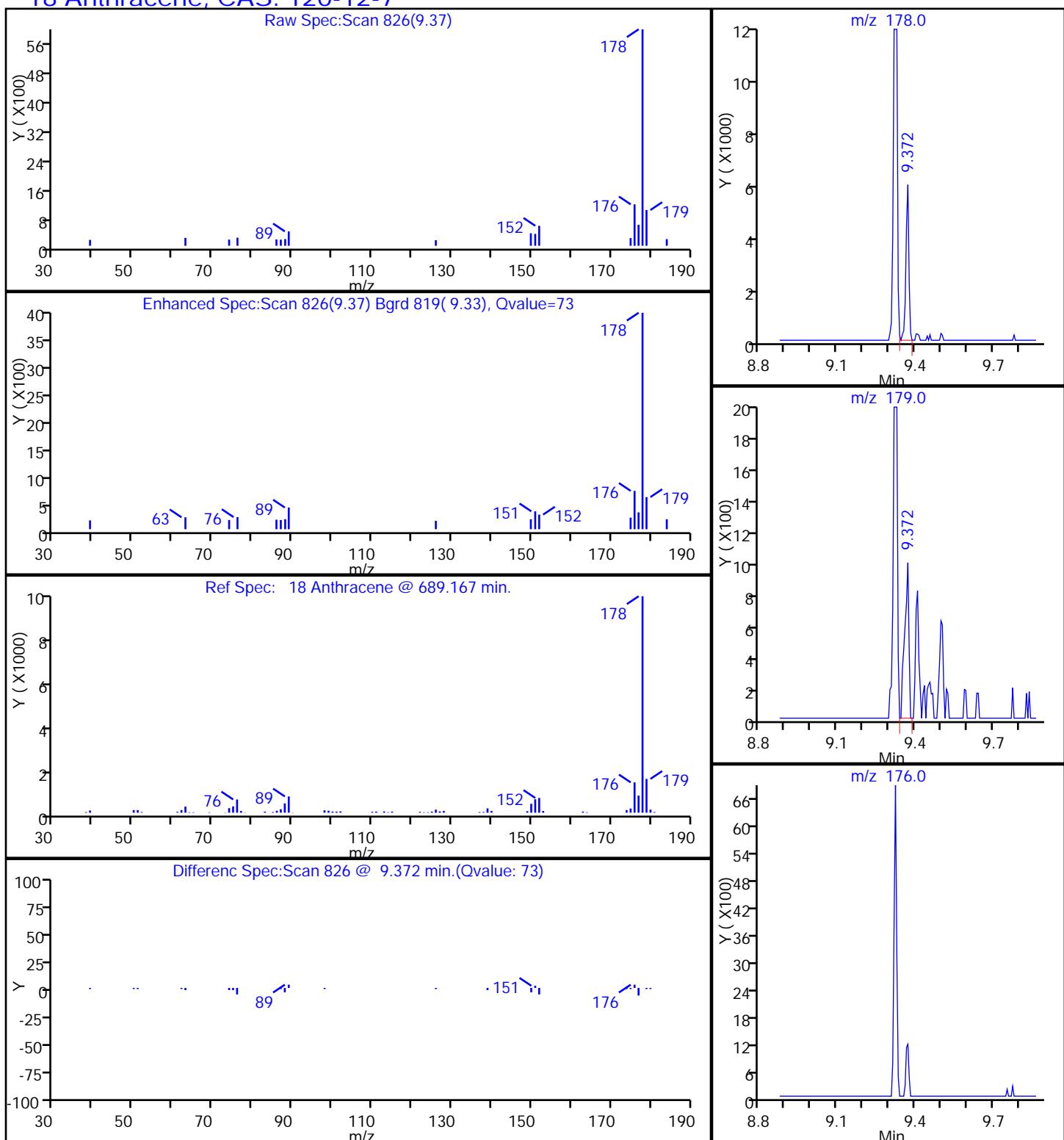
Dil. Factor: 10.0000

Method: 8270D\_LLPAH\_MSY

Limit Group: 8270D\_LL\_PAH

Column: Restek RXi-5Sil MS ( 0.25 mm)

Detector: MS SCAN

**18 Anthracene, CAS: 120-12-7**

TestAmerica Savannah

Data File: \\ChromNA\\Savannah\\ChromData\CMSY\\20150818-22358.b\\1YF18020.D

Injection Date: 18-Aug-2015 20:42:30

Instrument ID: CMSY

Lims ID: 680-115692-A-12-A

Lab Sample ID: 680-115692-12

Client ID: CV0511SS-CS-18

Operator ID: LIMS import

ALS Bottle#: 20 Worklist Smp#: 20

Injection Vol: 2.0 ul

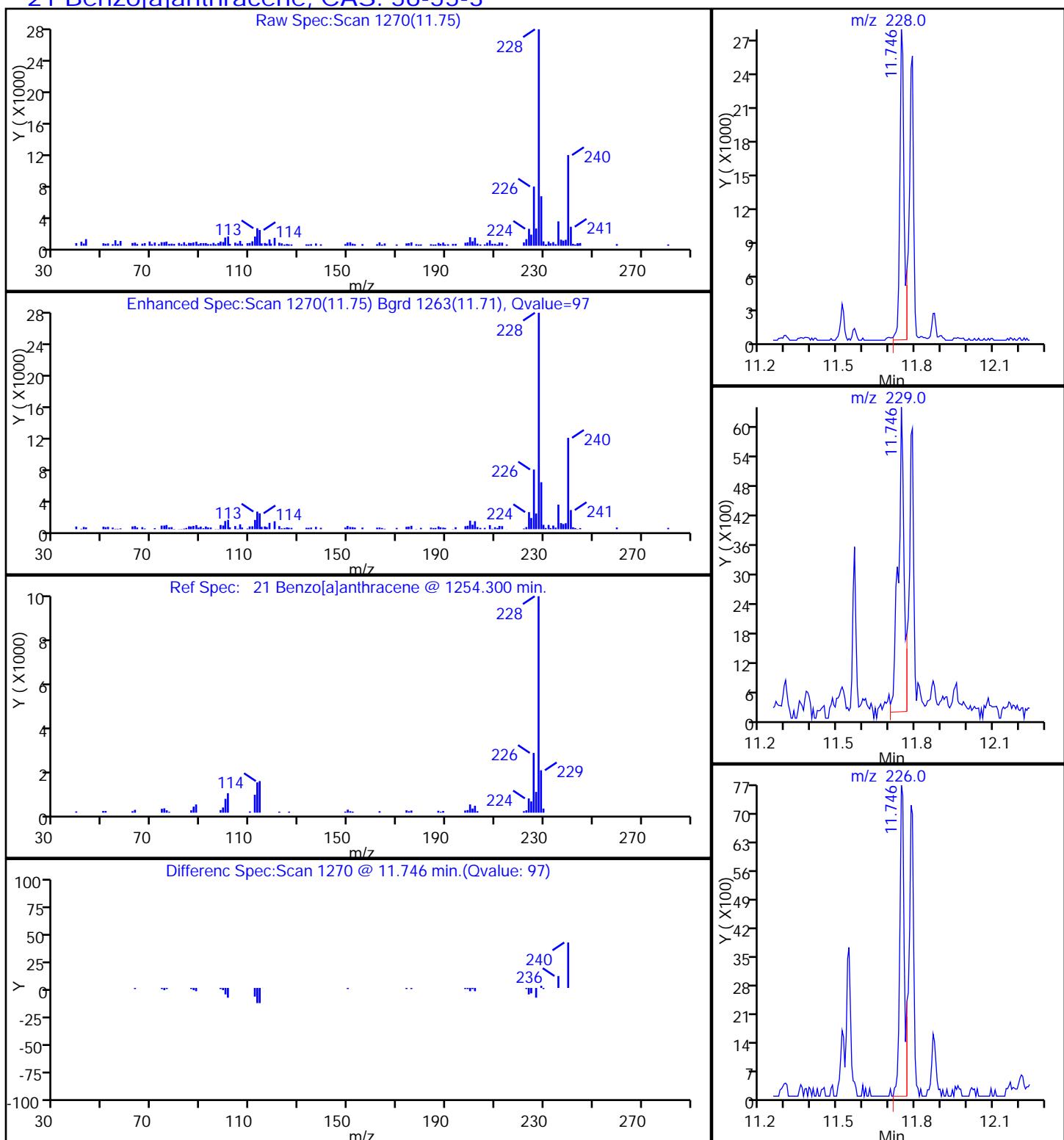
Dil. Factor: 10.0000

Method: 8270D\_LLPAH\_MSY

Limit Group: 8270D\_LL\_PAH

Column: Restek RXi-5Sil MS ( 0.25 mm)

Detector MS SCAN

**21 Benzo[a]anthracene, CAS: 56-55-3**

TestAmerica Savannah

Data File: \\ChromNA\\Savannah\\ChromData\CMSY\\20150818-22358.b\\1YF18020.D

Injection Date: 18-Aug-2015 20:42:30

Instrument ID: CMSY

Lims ID: 680-115692-A-12-A

Lab Sample ID: 680-115692-12

Client ID: CV0511SS-CS-18

Operator ID: LIMS import

ALS Bottle#: 20 Worklist Smp#: 20

Injection Vol: 2.0 ul

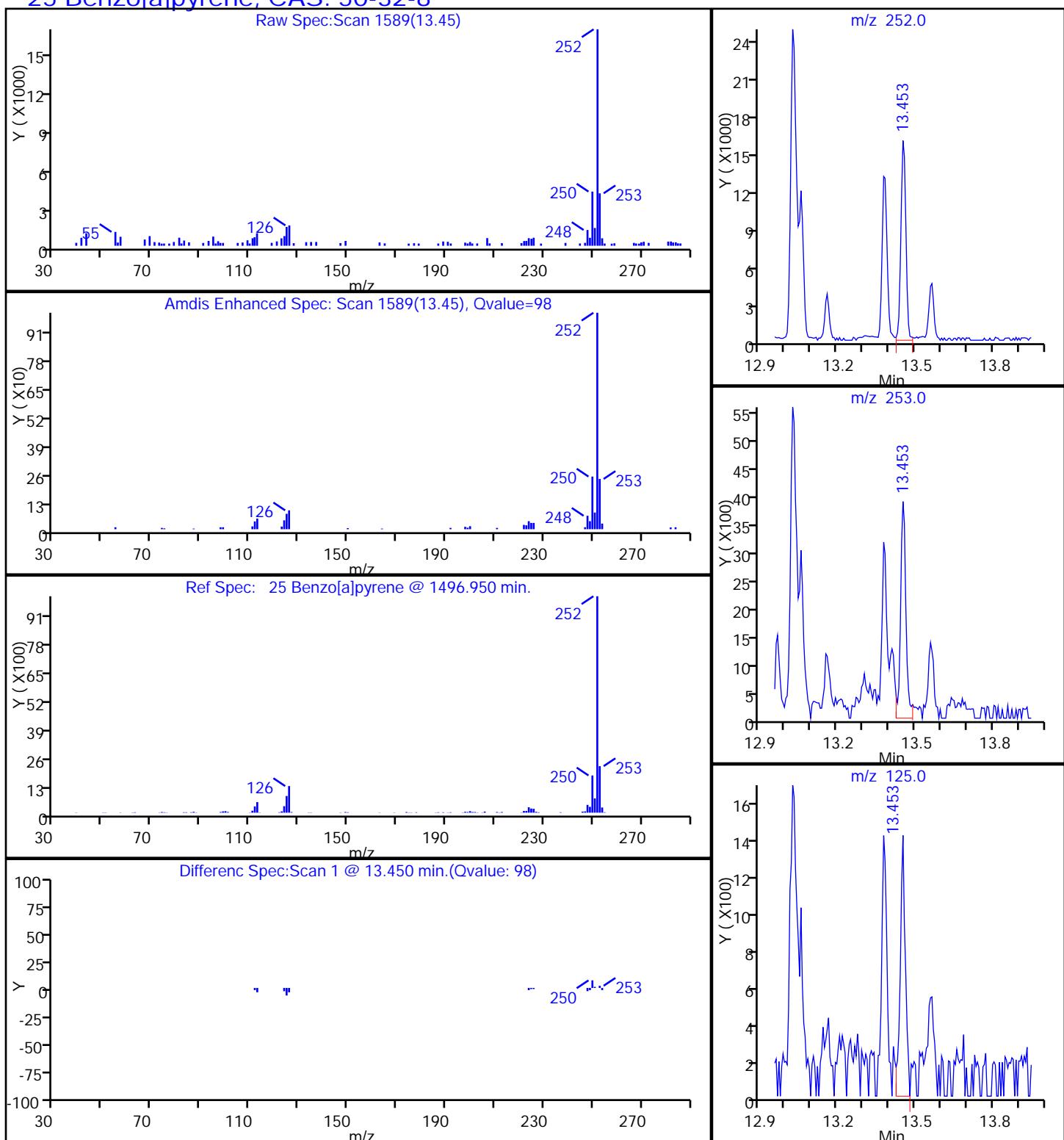
Dil. Factor: 10.0000

Method: 8270D\_LLPAH\_MSY

Limit Group: 8270D\_LL\_PAH

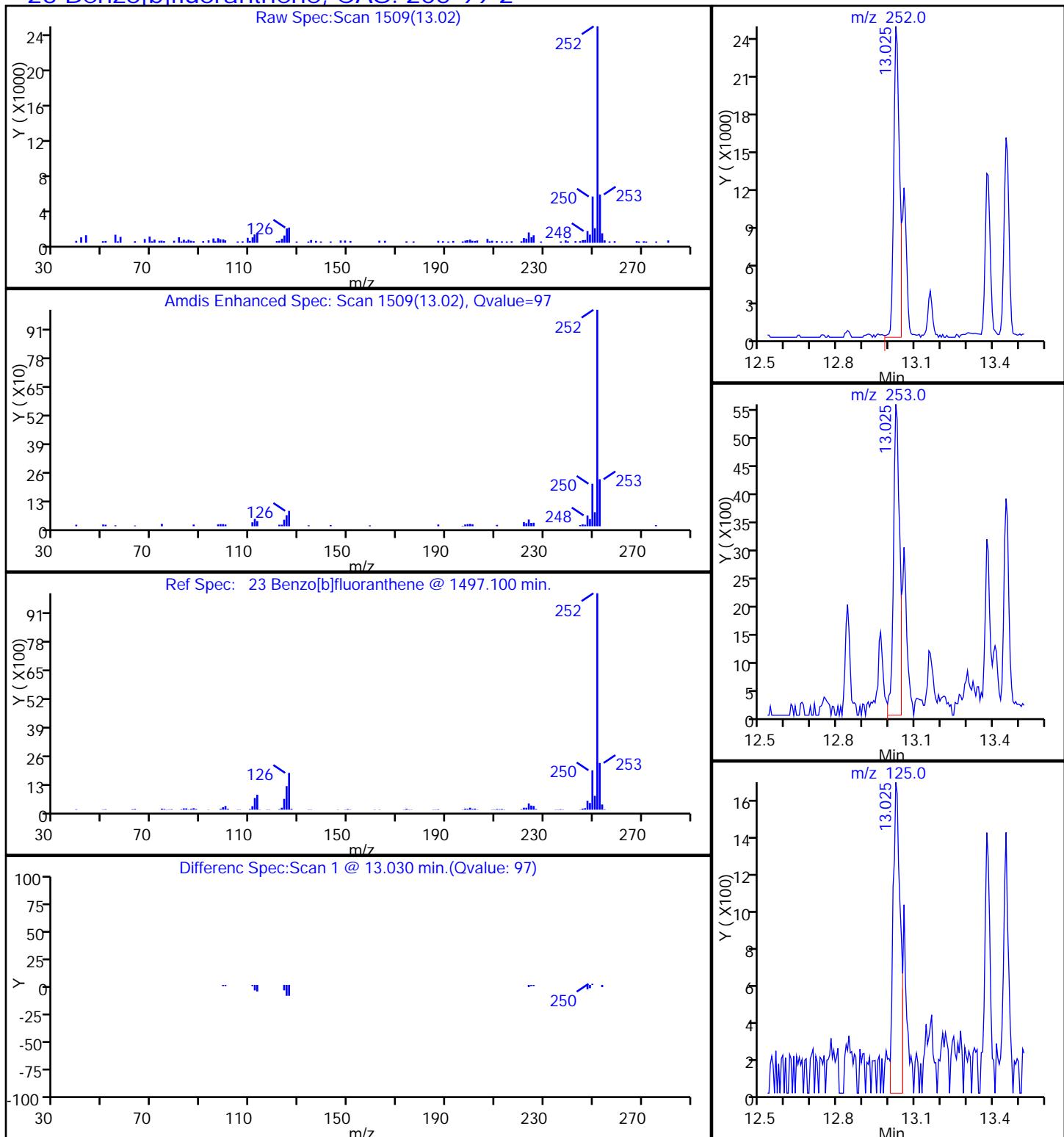
Column: Restek RXi-5Sil MS ( 0.25 mm)

Detector: MS SCAN

**25 Benzo[a]pyrene, CAS: 50-32-8**

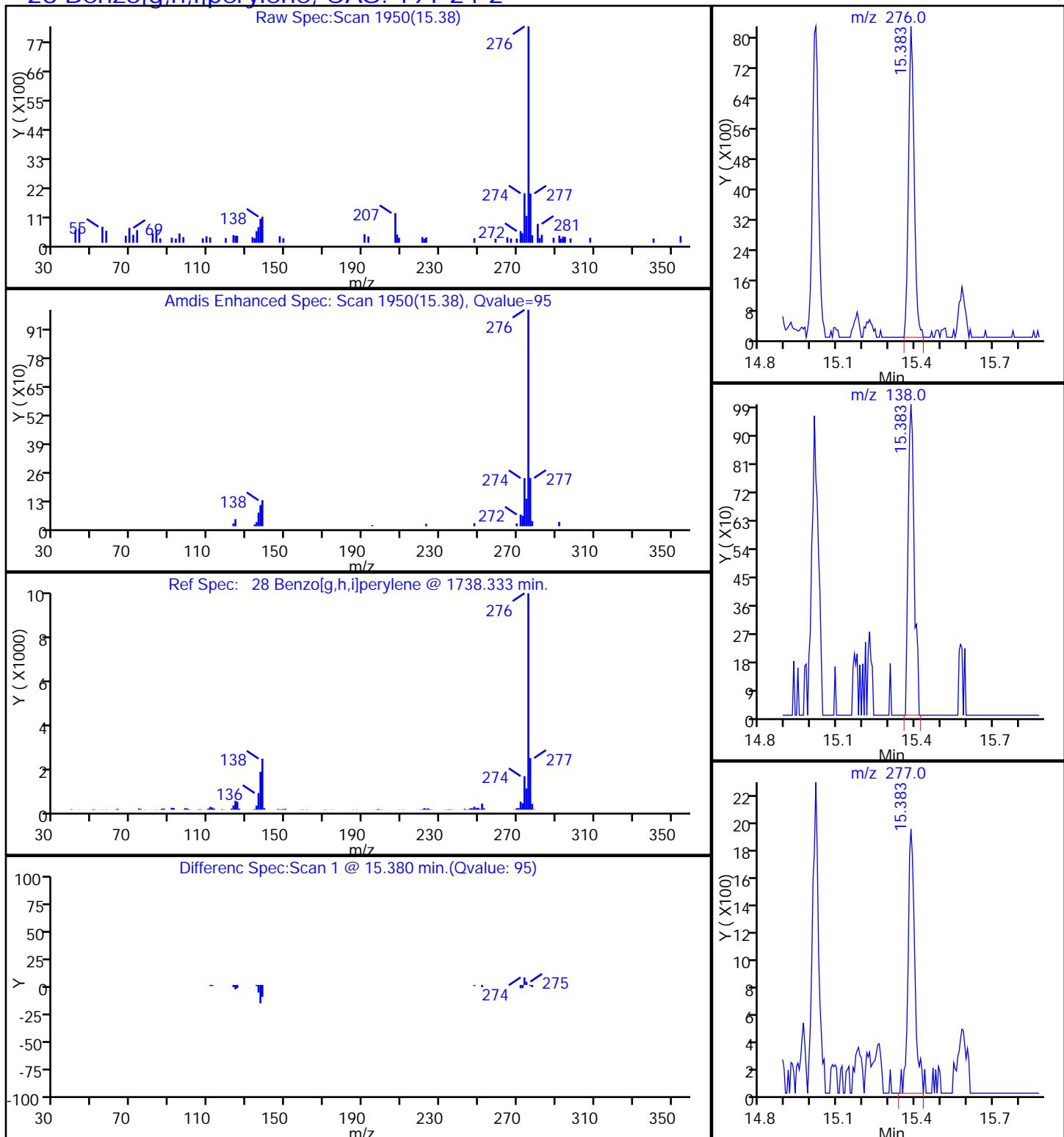
TestAmerica Savannah  
 Data File: \\ChromNA\\Savannah\\ChromData\\CMSY\\20150818-22358.b\\1YF18020.D  
 Injection Date: 18-Aug-2015 20:42:30 Instrument ID: CMSY  
 Lims ID: 680-115692-A-12-A Lab Sample ID: 680-115692-12  
 Client ID: CV0511SS-CS-18  
 Operator ID: LIMS import ALS Bottle#: 20 Worklist Smp#: 20  
 Injection Vol: 2.0 ul Dil. Factor: 10.0000  
 Method: 8270D\_LLPAH\_MSY Limit Group: 8270D\_LL\_PAH  
 Column: Restek RXi-5Sil MS ( 0.25 mm) Detector: MS SCAN

### 23 Benzo[b]fluoranthene, CAS: 205-99-2



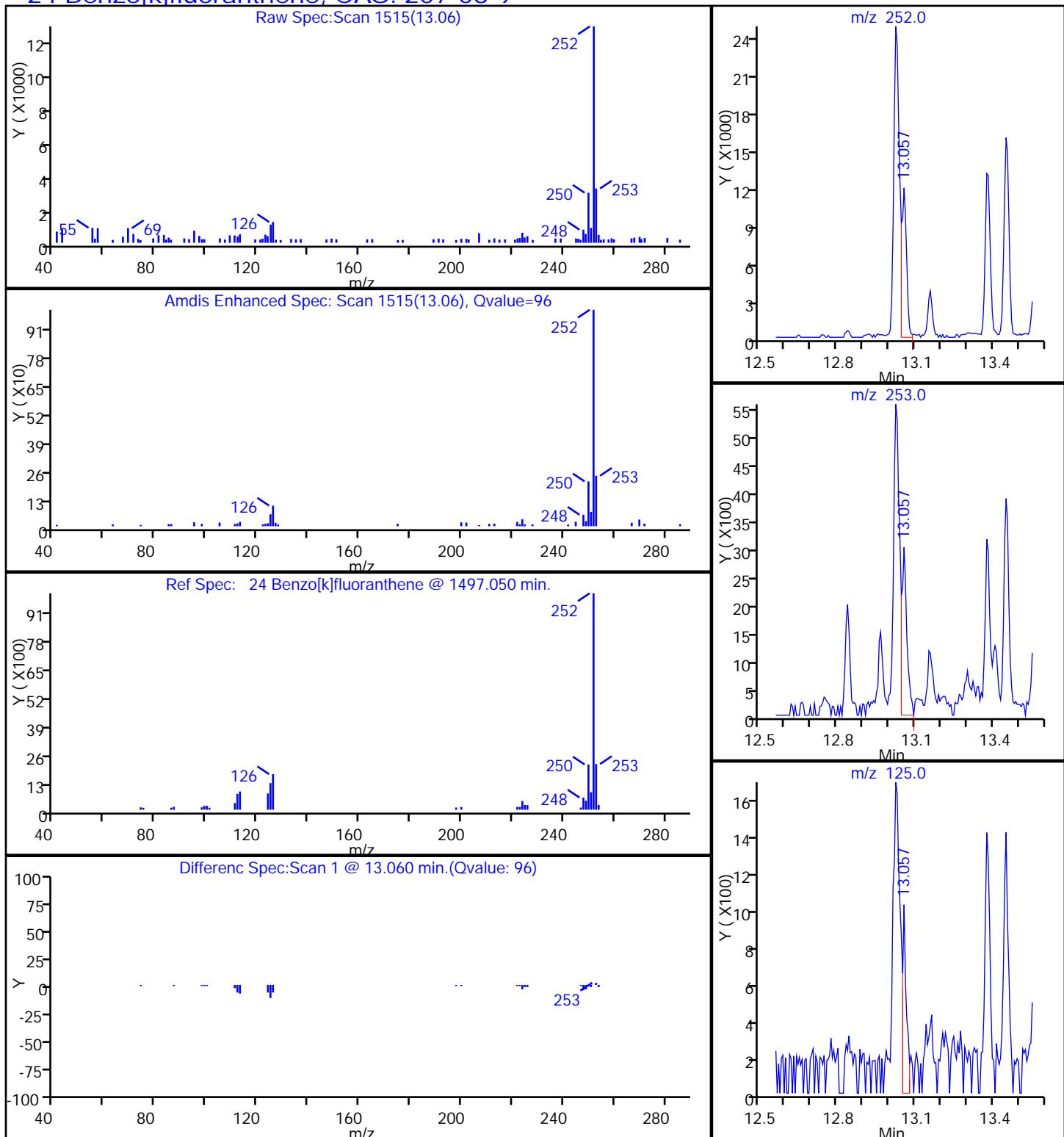
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 Injection Date: 18-Aug-2015 20:42:30 Instrument ID: CMSY  
 Lims ID: 680-115692-A-12-A Lab Sample ID: 680-115692-12  
 Client ID: CV0511SS-CS-18  
 Operator ID: LIMS import ALS Bottle#: 20 Worklist Smp#: 20  
 Injection Vol: 2.0 ul Dil. Factor: 10.0000  
 Method: 8270D\_LLPAH\_MSY Limit Group: 8270D\_LL\_PAH  
 Column: Restek RXi-5Sil MS ( 0.25 mm) Detector MS SCAN

## 28 Benzo[g,h,i]perylene, CAS: 191-24-2



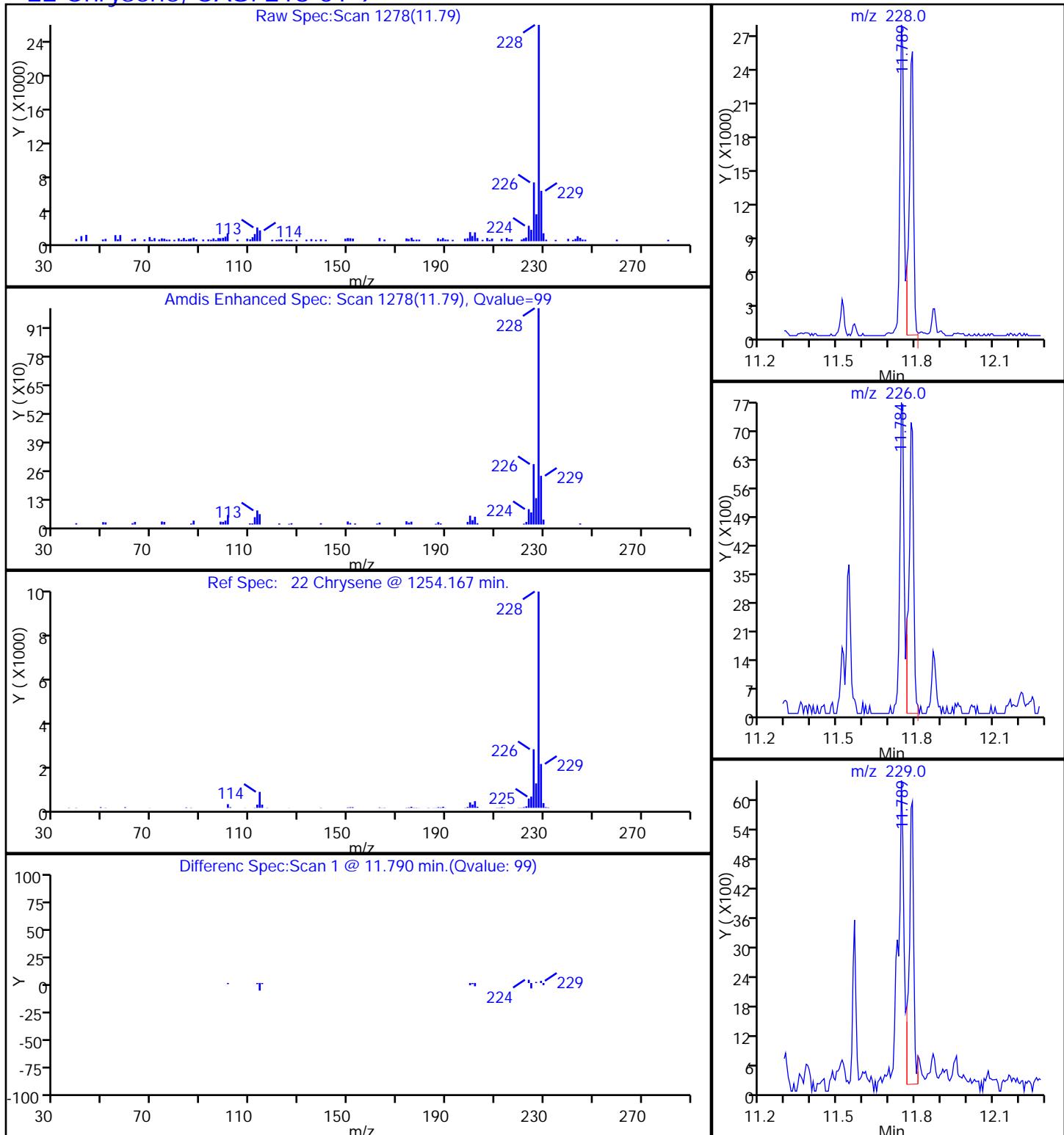
TestAmerica Savannah  
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 Injection Date: 18-Aug-2015 20:42:30 Instrument ID: CMSY  
 Lims ID: 680-115692-A-12-A Lab Sample ID: 680-115692-12  
 Client ID: CV0511SS-CS-18  
 Operator ID: LIMS import ALS Bottle#: 20 Worklist Smp#: 20  
 Injection Vol: 2.0 ul Dil. Factor: 10.0000  
 Method: 8270D\_LLPAH\_MSY Limit Group: 8270D\_LL\_PAH  
 Column: Restek RXi-5Sil MS ( 0.25 mm) Detector MS SCAN

### 24 Benzo[k]fluoranthene, CAS: 207-08-9

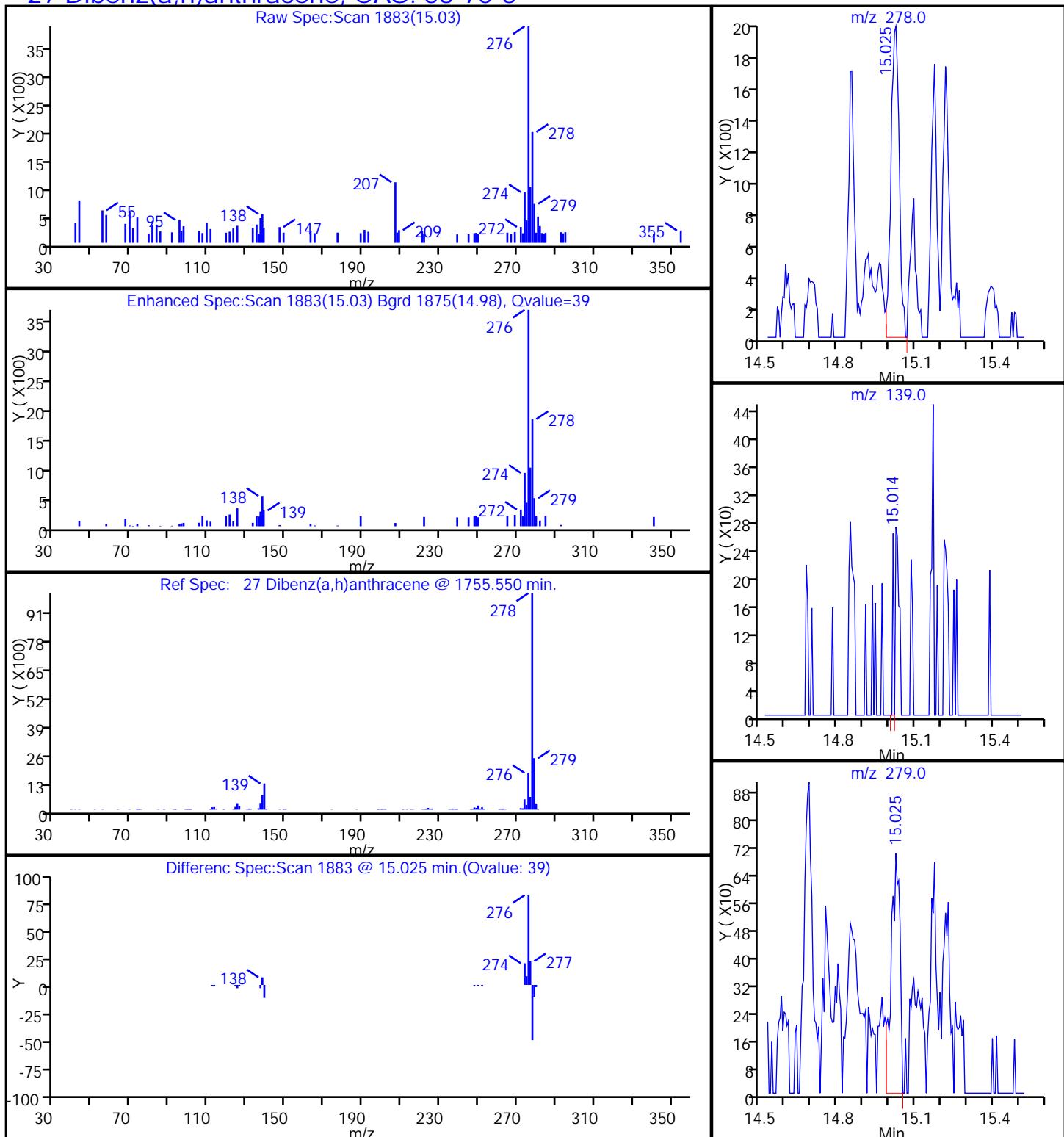


TestAmerica Savannah  
 Data File: \\ChromNA\\Savannah\\ChromData\CMSY\\20150818-22358.b\\1YF18020.D  
 Injection Date: 18-Aug-2015 20:42:30 Instrument ID: CMSY  
 Lims ID: 680-115692-A-12-A Lab Sample ID: 680-115692-12  
 Client ID: CV0511SS-CS-18  
 Operator ID: LIMS import ALS Bottle#: 20 Worklist Smp#: 20  
 Injection Vol: 2.0 ul Dil. Factor: 10.0000  
 Method: 8270D\_LLPAH\_MSY Limit Group: 8270D\_LL\_PAH  
 Column: Restek RXi-5Sil MS ( 0.25 mm) Detector MS SCAN

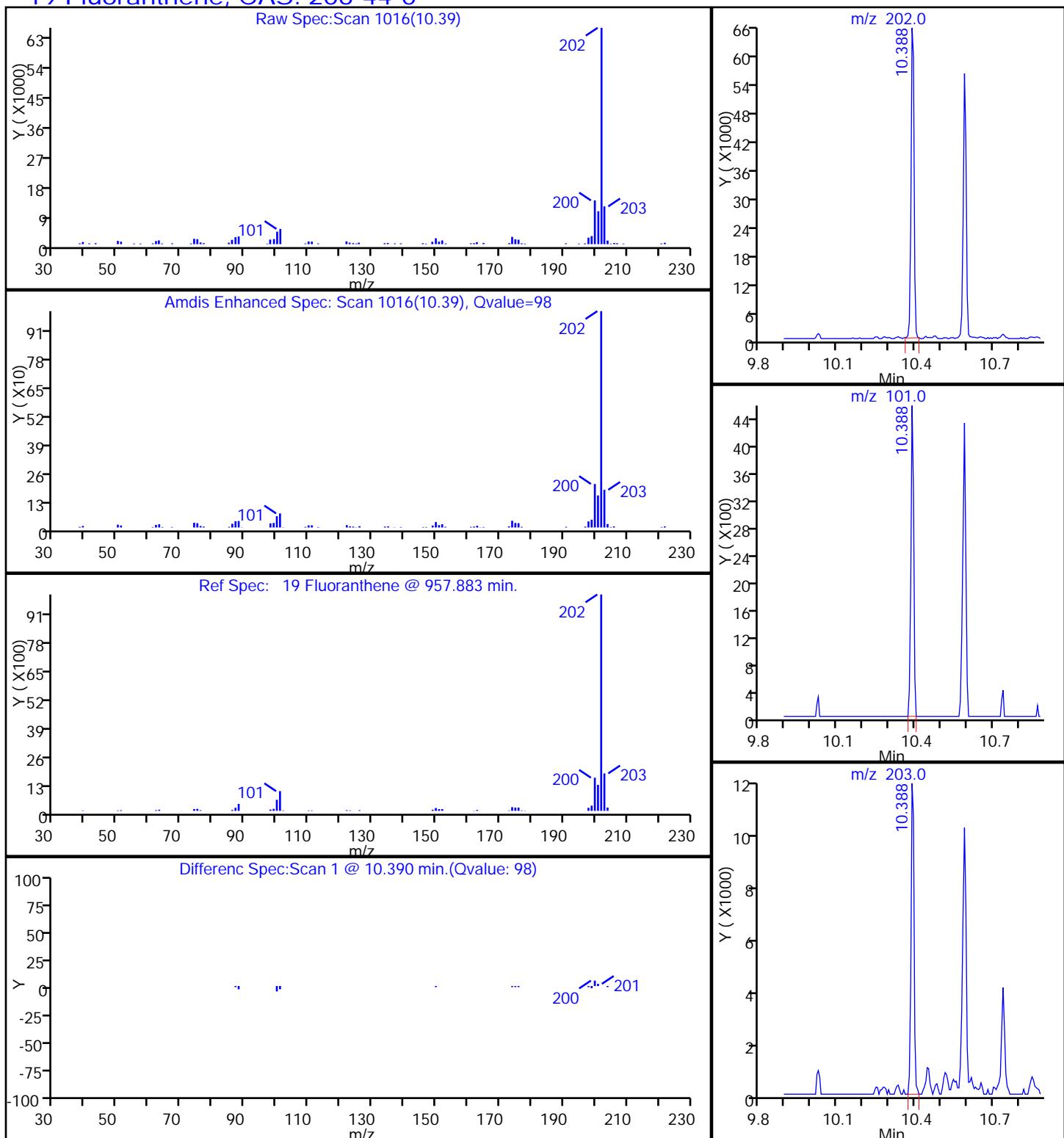
### 22 Chrysene, CAS: 218-01-9



TestAmerica Savannah  
 Data File: \\ChromNA\\Savannah\\ChromData\CMSY\\20150818-22358.b\\1YF18020.D  
 Injection Date: 18-Aug-2015 20:42:30 Instrument ID: CMSY  
 Lims ID: 680-115692-A-12-A Lab Sample ID: 680-115692-12  
 Client ID: CV0511SS-CS-18  
 Operator ID: LIMS import ALS Bottle#: 20 Worklist Smp#: 20  
 Injection Vol: 2.0 ul Dil. Factor: 10.0000  
 Method: 8270D\_LLPAH\_MSY Limit Group: 8270D\_LL\_PAH  
 Column: Restek RXi-5Sil MS ( 0.25 mm) Detector MS SCAN

**27 Dibenz(a,h)anthracene, CAS: 53-70-3**

TestAmerica Savannah  
 Data File: \\ChromNA\\Savannah\\ChromData\\CMSY\\20150818-22358.b\\1YF18020.D  
 Injection Date: 18-Aug-2015 20:42:30 Instrument ID: CMSY  
 Lims ID: 680-115692-A-12-A Lab Sample ID: 680-115692-12  
 Client ID: CV0511SS-CS-18  
 Operator ID: LIMS import ALS Bottle#: 20 Worklist Smp#: 20  
 Injection Vol: 2.0 ul Dil. Factor: 10.0000  
 Method: 8270D\_LLPAH\_MSY Limit Group: 8270D\_LL\_PAH  
 Column: Restek RXi-5Sil MS ( 0.25 mm) Detector MS SCAN

**19 Fluoranthene, CAS: 206-44-0**

TestAmerica Savannah

Data File: \\ChromNA\\Savannah\\ChromData\CMSY\\20150818-22358.b\\1YF18020.D

Injection Date: 18-Aug-2015 20:42:30

Instrument ID: CMSY

Lims ID: 680-115692-A-12-A

Lab Sample ID: 680-115692-12

Client ID: CV0511SS-CS-18

Operator ID: LIMS import

ALS Bottle#: 20 Worklist Smp#: 20

Injection Vol: 2.0 ul

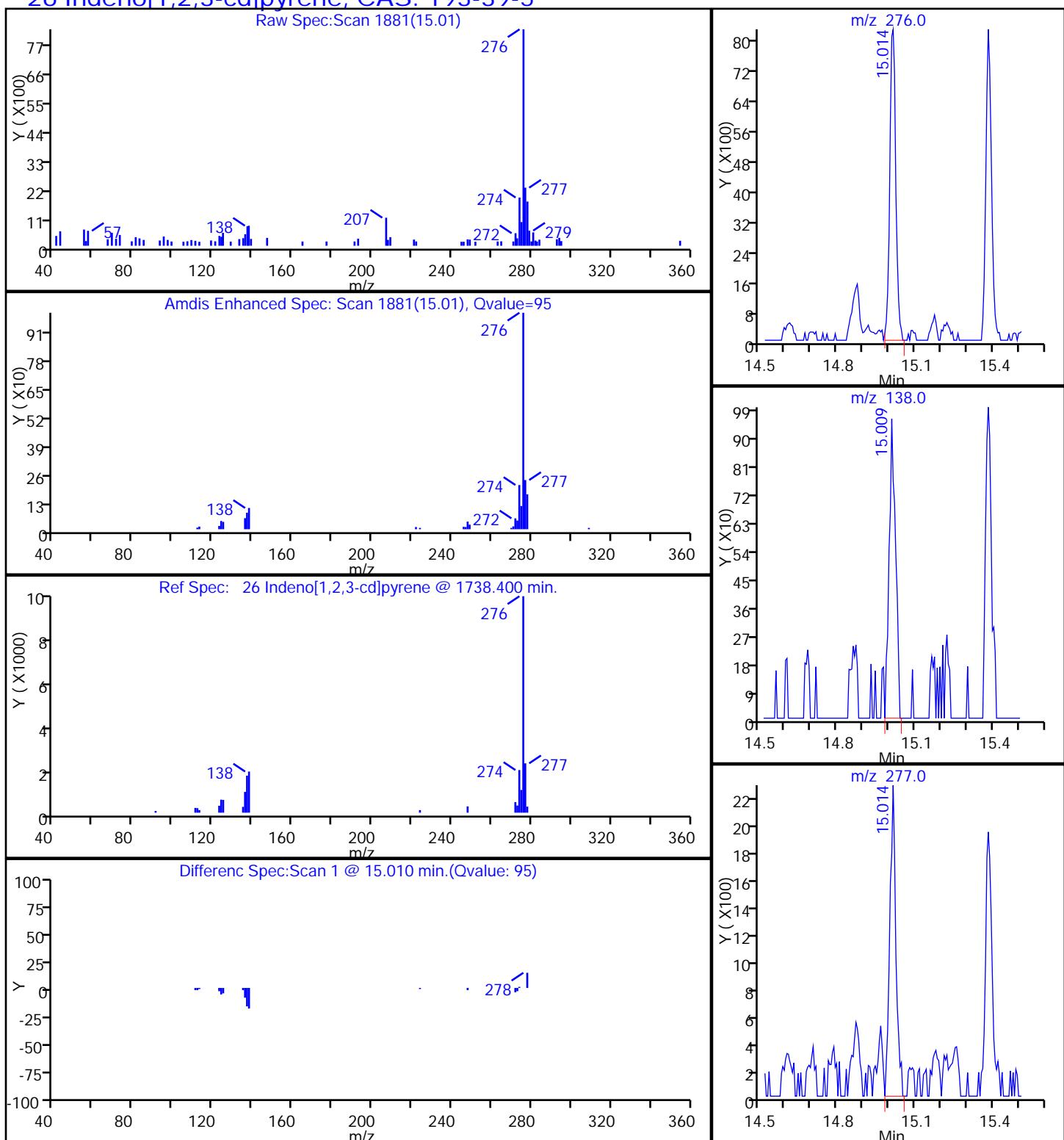
Dil. Factor: 10.0000

Method: 8270D\_LLPAH\_MSY

Limit Group: 8270D\_LL\_PAH

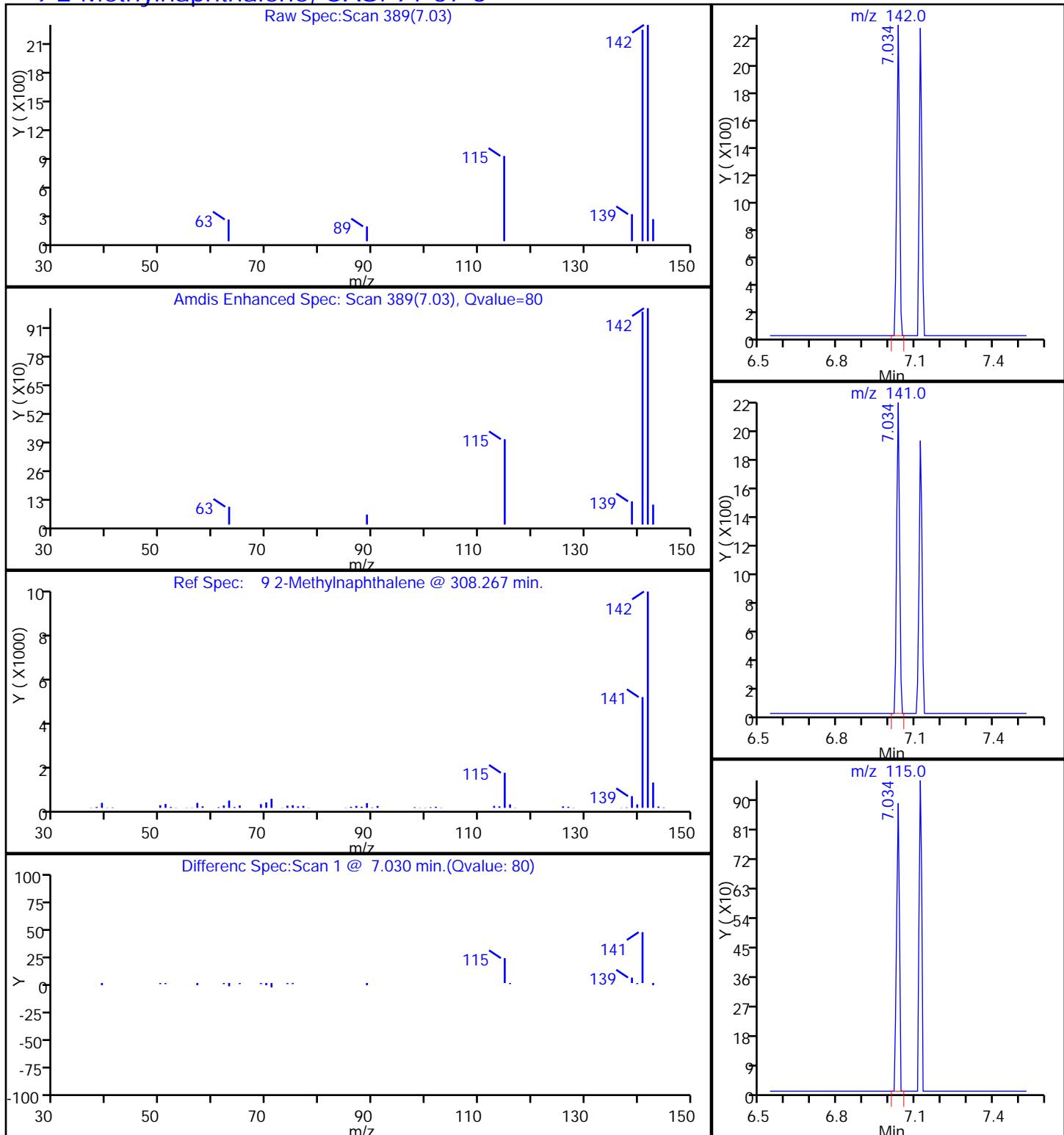
Column: Restek RXi-5Sil MS ( 0.25 mm)

Detector MS SCAN

**26 Indeno[1,2,3-cd]pyrene, CAS: 193-39-5**

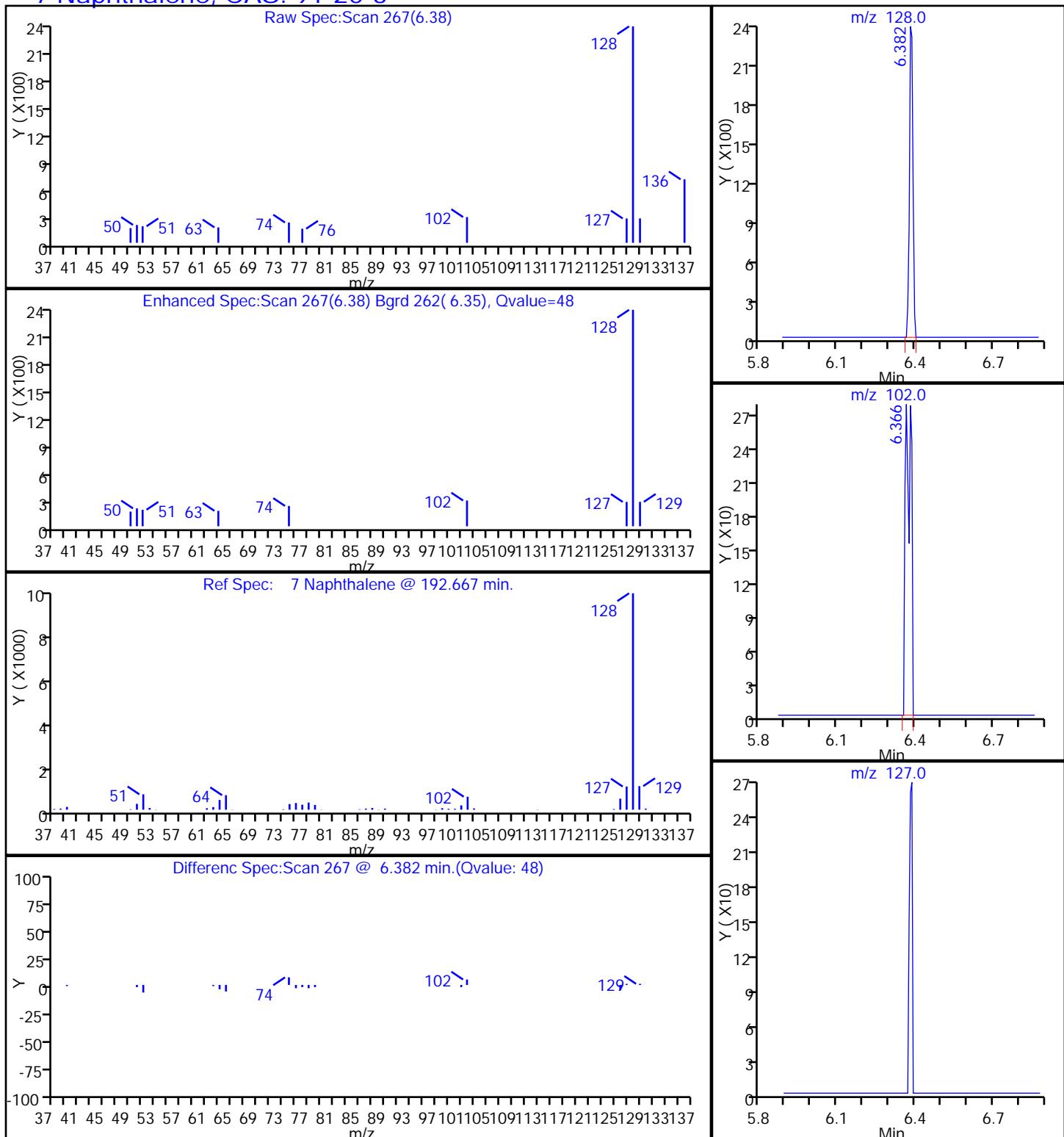
TestAmerica Savannah  
 Data File: \\ChromNA\\Savannah\\ChromData\\CMSY\\20150818-22358.b\\1YF18020.D  
 Injection Date: 18-Aug-2015 20:42:30 Instrument ID: CMSY  
 Lims ID: 680-115692-A-12-A Lab Sample ID: 680-115692-12  
 Client ID: CV0511SS-CS-18  
 Operator ID: LIMS import ALS Bottle#: 20 Worklist Smp#: 20  
 Injection Vol: 2.0 ul Dil. Factor: 10.0000  
 Method: 8270D\_LLPAH\_MSY Limit Group: 8270D\_LL\_PAH  
 Column: Restek RXi-5Sil MS ( 0.25 mm) Detector: MS SCAN

### 9 2-Methylnaphthalene, CAS: 91-57-6



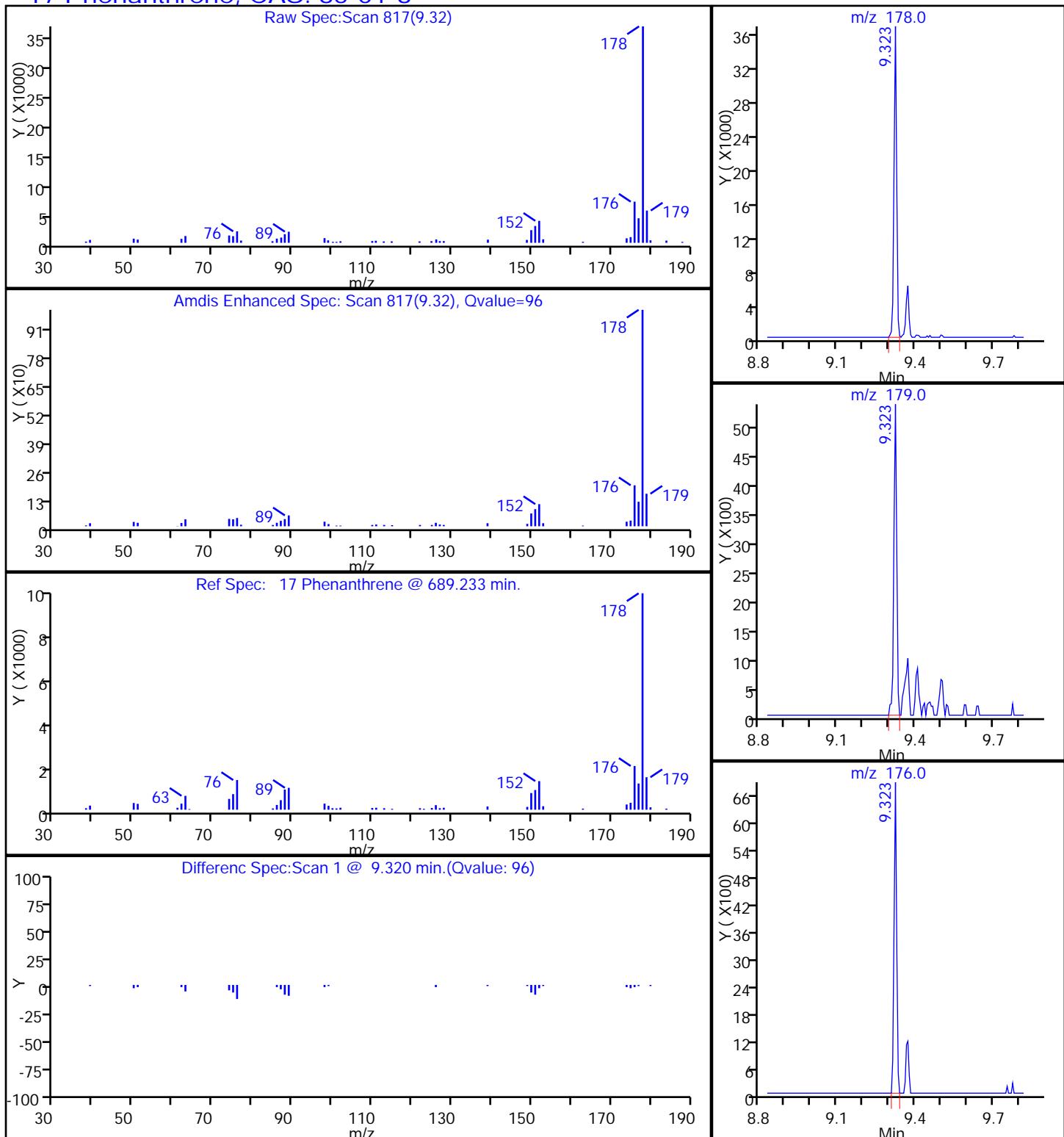
TestAmerica Savannah  
 Data File: \\ChromNA\\Savannah\\ChromData\CMSY\\20150818-22358.b\\1YF18020.D  
 Injection Date: 18-Aug-2015 20:42:30 Instrument ID: CMSY  
 Lims ID: 680-115692-A-12-A Lab Sample ID: 680-115692-12  
 Client ID: CV0511SS-CS-18  
 Operator ID: LIMS import ALS Bottle#: 20 Worklist Smp#: 20  
 Injection Vol: 2.0 ul Dil. Factor: 10.0000  
 Method: 8270D\_LLPAH\_MSY Limit Group: 8270D\_LL\_PAH  
 Column: Restek RXi-5Sil MS ( 0.25 mm) Detector: MS SCAN

### 7 Naphthalene, CAS: 91-20-3



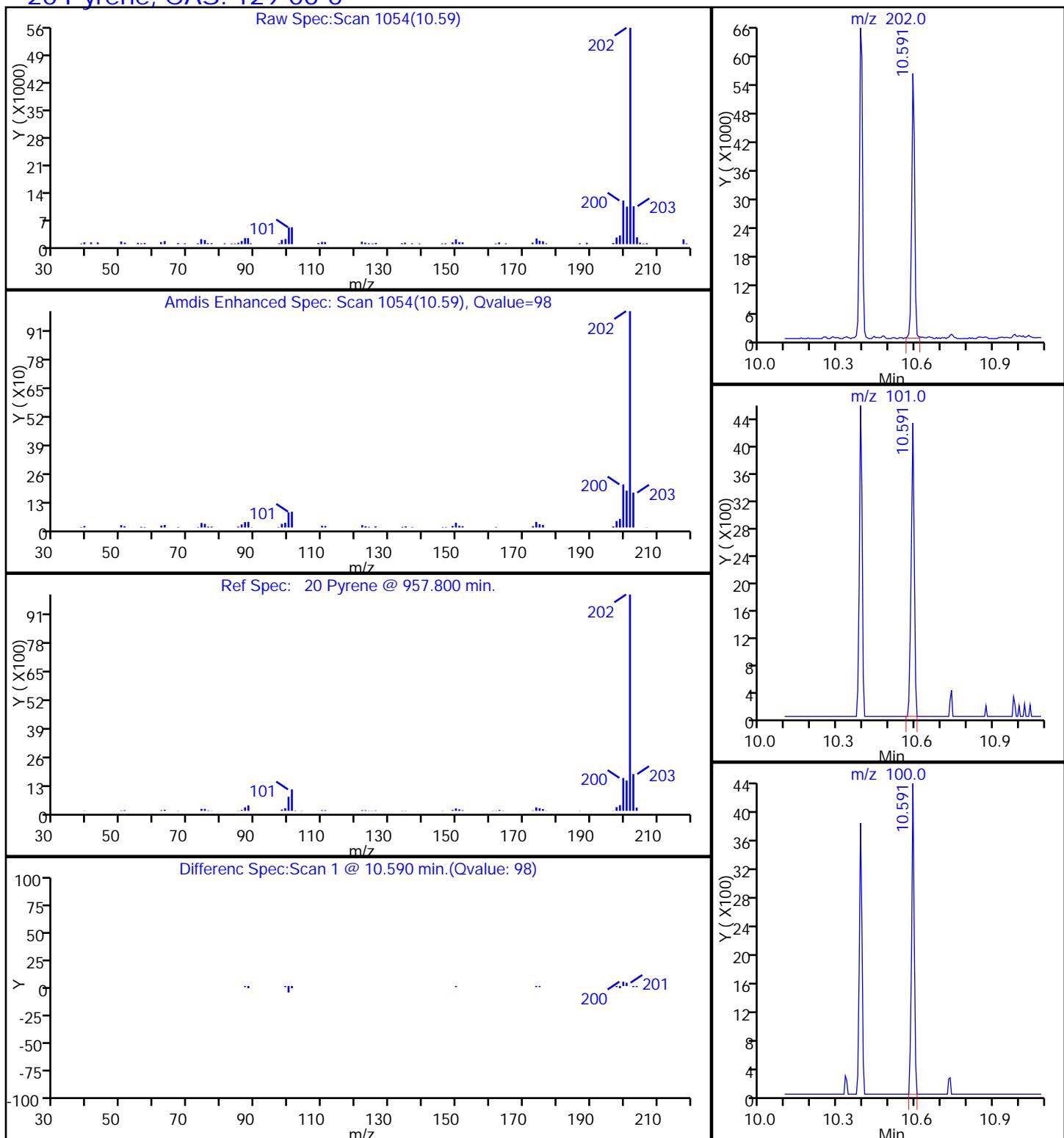
TestAmerica Savannah  
 Data File: \\ChromNA\\Savannah\\ChromData\CMSY\\20150818-22358.b\\1YF18020.D  
 Injection Date: 18-Aug-2015 20:42:30 Instrument ID: CMSY  
 Lims ID: 680-115692-A-12-A Lab Sample ID: 680-115692-12  
 Client ID: CV0511SS-CS-18  
 Operator ID: LIMS import ALS Bottle#: 20 Worklist Smp#: 20  
 Injection Vol: 2.0 ul Dil. Factor: 10.0000  
 Method: 8270D\_LLPAH\_MSY Limit Group: 8270D\_LL\_PAH  
 Column: Restek RXi-5Sil MS ( 0.25 mm) Detector: MS SCAN

### 17 Phenanthrene, CAS: 85-01-8



TestAmerica Savannah  
 Data File: \\ChromNA\\Savannah\\ChromData\\CMSY\\20150818-22358.b\\1YF18020.D  
 Injection Date: 18-Aug-2015 20:42:30 Instrument ID: CMSY  
 Lims ID: 680-115692-A-12-A Lab Sample ID: 680-115692-12  
 Client ID: CV0511SS-CS-18  
 Operator ID: LIMS import ALS Bottle#: 20 Worklist Smp#: 20  
 Injection Vol: 2.0 ul Dil. Factor: 10.0000  
 Method: 8270D\_LLPAH\_MSY Limit Group: 8270D\_LL\_PAH  
 Column: Restek RXi-5Sil MS ( 0.25 mm) Detector MS SCAN

## 20 Pyrene, CAS: 129-00-0



FORM I  
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Savannah Job No.: 680-115692-1  
 SDG No.: 680-115692-01  
 Client Sample ID: CV0511SS-CS-24 Lab Sample ID: 680-115692-13  
 Matrix: Solid Lab File ID: 1YF18021.D  
 Analysis Method: 8270D\_LL\_PAH Date Collected: 08/10/2015 15:50  
 Extract. Method: 3546 Date Extracted: 08/17/2015 10:44  
 Sample wt/vol: 30.10(g) Date Analyzed: 08/18/2015 21:10  
 Con. Extract Vol.: 1(mL) Dilution Factor: 1  
 Injection Volume: 2(uL) Level: (low/med) Low  
 % Moisture: 18.5 GPC Cleanup: (Y/N) N  
 Analysis Batch No.: 396712 Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	8.2	U	8.2	4.0
208-96-8	Acenaphthylene	8.2	U	8.2	4.0
120-12-7	Anthracene	8.8		8.2	4.0
56-55-3	Benzo[a]anthracene	35		8.2	4.0
50-32-8	Benzo[a]pyrene	32		8.2	1.5
205-99-2	Benzo[b]fluoranthene	65		8.2	4.0
191-24-2	Benzo[g,h,i]perylene	19		8.2	4.0
207-08-9	Benzo[k]fluoranthene	20		8.2	2.4
218-01-9	Chrysene	49		8.2	4.0
53-70-3	Dibenz(a,h)anthracene	5.7	J	8.2	4.0
206-44-0	Fluoranthene	73		8.2	4.0
86-73-7	Fluorene	8.2	U	8.2	4.0
193-39-5	Indeno[1,2,3-cd]pyrene	12		8.2	4.0
90-12-0	1-Methylnaphthalene	14		8.2	3.8
91-57-6	2-Methylnaphthalene	8.2		8.2	4.0
91-20-3	Naphthalene	9.7		8.2	4.0
85-01-8	Phenanthrene	52		8.2	2.9
129-00-0	Pyrene	54		8.2	4.0

CAS NO.	SURROGATE	%REC	Q	LIMITS
84-15-1	o-Terphenyl	93		36-131

TestAmerica Savannah  
Target Compound Quantitation Report

Data File: \\ChromNA\Savannah\ChromData\CMSY\20150818-22358.b\1YF18021.D  
 Lims ID: 680-115692-A-13-A Lab Sample ID: 680-115692-13  
 Client ID: CV0511SS-CS-24  
 Sample Type: Client  
 Inject. Date: 18-Aug-2015 21:10:30 ALS Bottle#: 21 Worklist Smp#: 21  
 Injection Vol: 2.0 ul Dil. Factor: 1.0000  
 Sample Info: 680-115692-A-13-A  
 Misc. Info.: 680-0022358-021  
 Operator ID: LIMS import Instrument ID: CMSY  
 Method: \\ChromNA\Savannah\ChromData\CMSY\20150818-22358.b\8270D\_LLPAH\_MSY.m  
 Limit Group: 8270D\_LL\_PAH  
 Last Update: 19-Aug-2015 11:22:28 Calib Date: 12-Aug-2015 16:37:30  
 Integrator: RTE ID Type: Deconvolution ID  
 Quant Method: Internal Standard Quant By: Initial Calibration  
 Last ICAL File: \\ChromNA\Savannah\ChromData\CMSY\20150812-22174.b\1YF12008.D  
 Column 1 : Restek RXi-5Sil MS ( 0.25 mm) Det: MS SCAN  
 Process Host: XAWRK003

First Level Reviewer: millsj Date: 19-Aug-2015 11:15:59

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/ml	Flags
* 1 Naphthalene-d8	136	6.366	6.366	0.000	99	46193	2.00	
* 2 Acenaphthene-d10	164	7.970	7.975	-0.005	96	26074	2.00	
* 3 Phenanthrene-d10	188	9.302	9.307	-0.005	97	57434	2.00	
* 4 Chrysene-d12	240	11.762	11.773	-0.011	98	81332	2.00	
* 5 Perylene-d12	264	13.533	13.538	-0.005	98	65036	2.00	
\$ 6 o-Terphenyl	230	9.650	9.655	-0.005	90	34530	1.86	
7 Naphthalene	128	6.382	6.387	-0.005	97	4952	0.2375	
9 2-Methylnaphthalene	142	7.034	7.034	0.000	81	2988	0.2005	
10 1-Methylnaphthalene	142	7.120	7.120	0.000	90	4610	0.3484	
14 Acenaphthene	153	7.997	8.002	-0.005	92	1348	0.0865	
16 Fluorene	166	8.468	8.468	0.000	89	1727	0.0963	
17 Phenanthrene	178	9.323	9.329	-0.006	97	34716	1.26	
18 Anthracene	178	9.372	9.371	0.001	98	5071	0.2152	
19 Fluoranthene	202	10.393	10.398	-0.005	98	58942	1.79	
20 Pyrene	202	10.596	10.602	-0.006	98	47474	1.34	
21 Benzo[a]anthracene	228	11.752	11.762	-0.010	96	33732	0.8618	
22 Chrysene	228	11.789	11.805	-0.016	99	44679	1.19	
23 Benzo[b]fluoranthene	252	13.035	13.041	-0.006	96	50729	1.60	
24 Benzo[k]fluoranthene	252	13.062	13.078	-0.016	96	15462	0.4984	
25 Benzo[a]pyrene	252	13.463	13.469	-0.006	97	23538	0.7963	
26 Indeno[1,2,3-cd]pyrene	276	15.025	15.025	0.000	95	17003	0.2843	
27 Dibenz(a,h)anthracene	278	15.030	15.041	-0.011	94	5038	0.1397	
28 Benzo[g,h,i]perylene	276	15.400	15.399	0.001	96	15794	0.4594	

**Reagents:**

SM-LLISTD\_00128 Amount Added: 10.00 Units: uL Run Reagent

Report Date: 19-Aug-2015 11:22:54

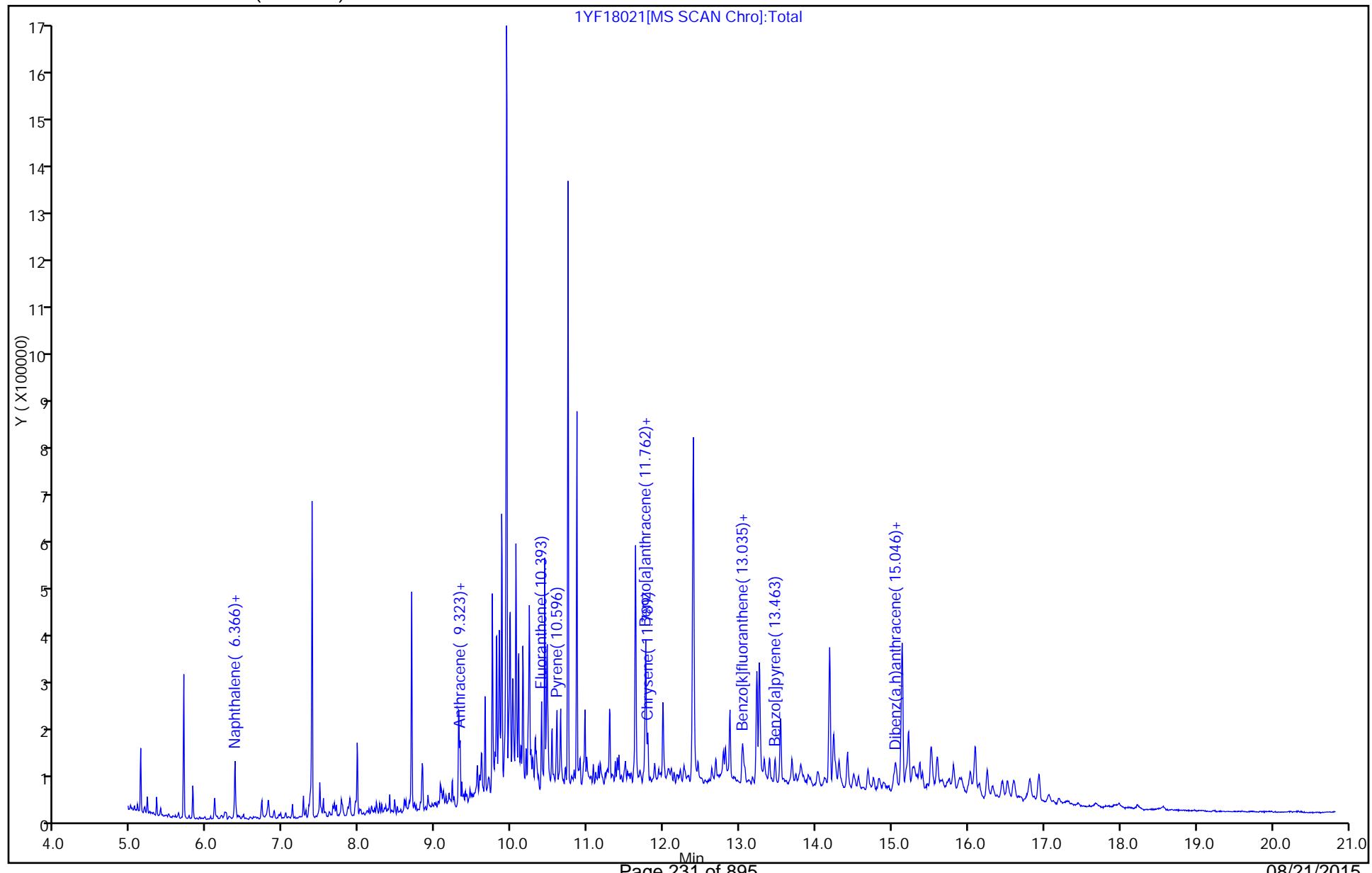
Chrom Revision: 2.2 23-Jul-2015 08:26:08

## TestAmerica Savannah

Data File: \\ChromNA\\Savannah\\ChromData\CMSY\\20150818-22358.b\\1YF18021.D  
Injection Date: 18-Aug-2015 21:10:30 Instrument ID: CMSY  
Lims ID: 680-115692-A-13-A Lab Sample ID: 680-115692-13  
Client ID: CV0511SS-CS-24  
Injection Vol: 2.0 ul Dil. Factor: 1.0000  
Method: 8270D\_LLPAH\_MSY Limit Group: 8270D\_LL\_PAH  
Column: Restek RXi-5Sil MS ( 0.25 mm)

Operator ID: LIMS import  
Worklist Smp#: 21

ALS Bottle#: 21



TestAmerica Savannah

Data File: \\ChromNA\\Savannah\\ChromData\CMSY\\20150818-22358.b\\1YF18021.D

Injection Date: 18-Aug-2015 21:10:30

Instrument ID: CMSY

Lims ID: 680-115692-A-13-A

Lab Sample ID: 680-115692-13

Client ID: CV0511SS-CS-24

Operator ID: LIMS import

ALS Bottle#: 21 Worklist Smp#: 21

Injection Vol: 2.0 ul

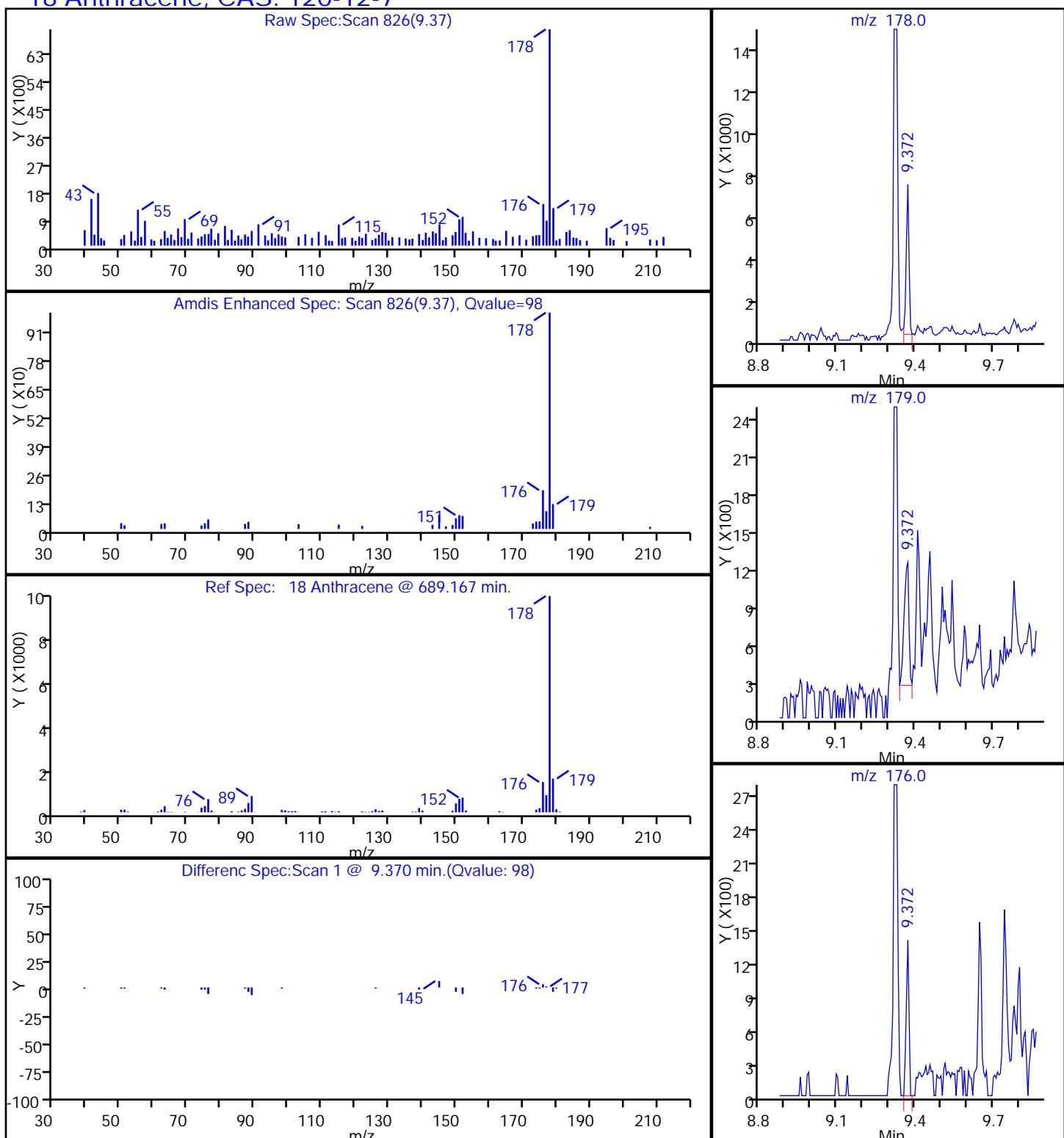
Dil. Factor: 1.0000

Method: 8270D\_LLPAH\_MSY

Limit Group: 8270D\_LL\_PAH

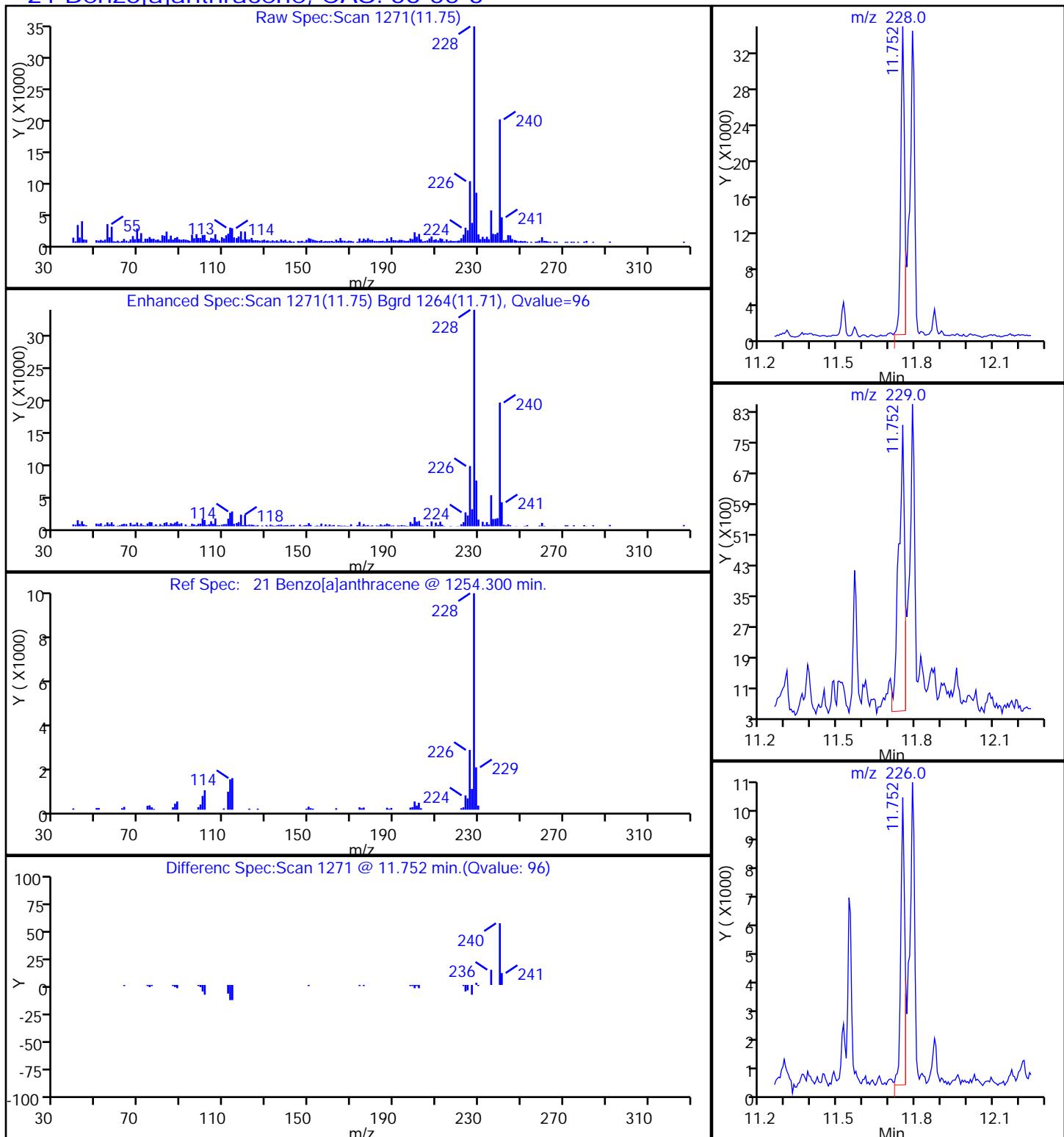
Column: Restek RXi-5Sil MS ( 0.25 mm)

Detector: MS SCAN

**18 Anthracene, CAS: 120-12-7**

TestAmerica Savannah  
 Data File: \\ChromNA\\Savannah\\ChromData\\CMSY\\20150818-22358.b\\1YF18021.D  
 Injection Date: 18-Aug-2015 21:10:30 Instrument ID: CMSY  
 Lims ID: 680-115692-A-13-A Lab Sample ID: 680-115692-13  
 Client ID: CV0511SS-CS-24  
 Operator ID: LIMS import ALS Bottle#: 21 Worklist Smp#: 21  
 Injection Vol: 2.0 ul Dil. Factor: 1.0000  
 Method: 8270D\_LLPAH\_MSY Limit Group: 8270D\_LL\_PAH  
 Column: Restek RXi-5Sil MS ( 0.25 mm) Detector: MS SCAN

### 21 Benzo[a]anthracene, CAS: 56-55-3



TestAmerica Savannah

Data File: \\ChromNA\\Savannah\\ChromData\CMSY\\20150818-22358.b\\1YF18021.D

Injection Date: 18-Aug-2015 21:10:30

Instrument ID: CMSY

Lims ID: 680-115692-A-13-A

Lab Sample ID: 680-115692-13

Client ID: CV0511SS-CS-24

Operator ID: LIMS import

ALS Bottle#: 21 Worklist Smp#: 21

Injection Vol: 2.0 ul

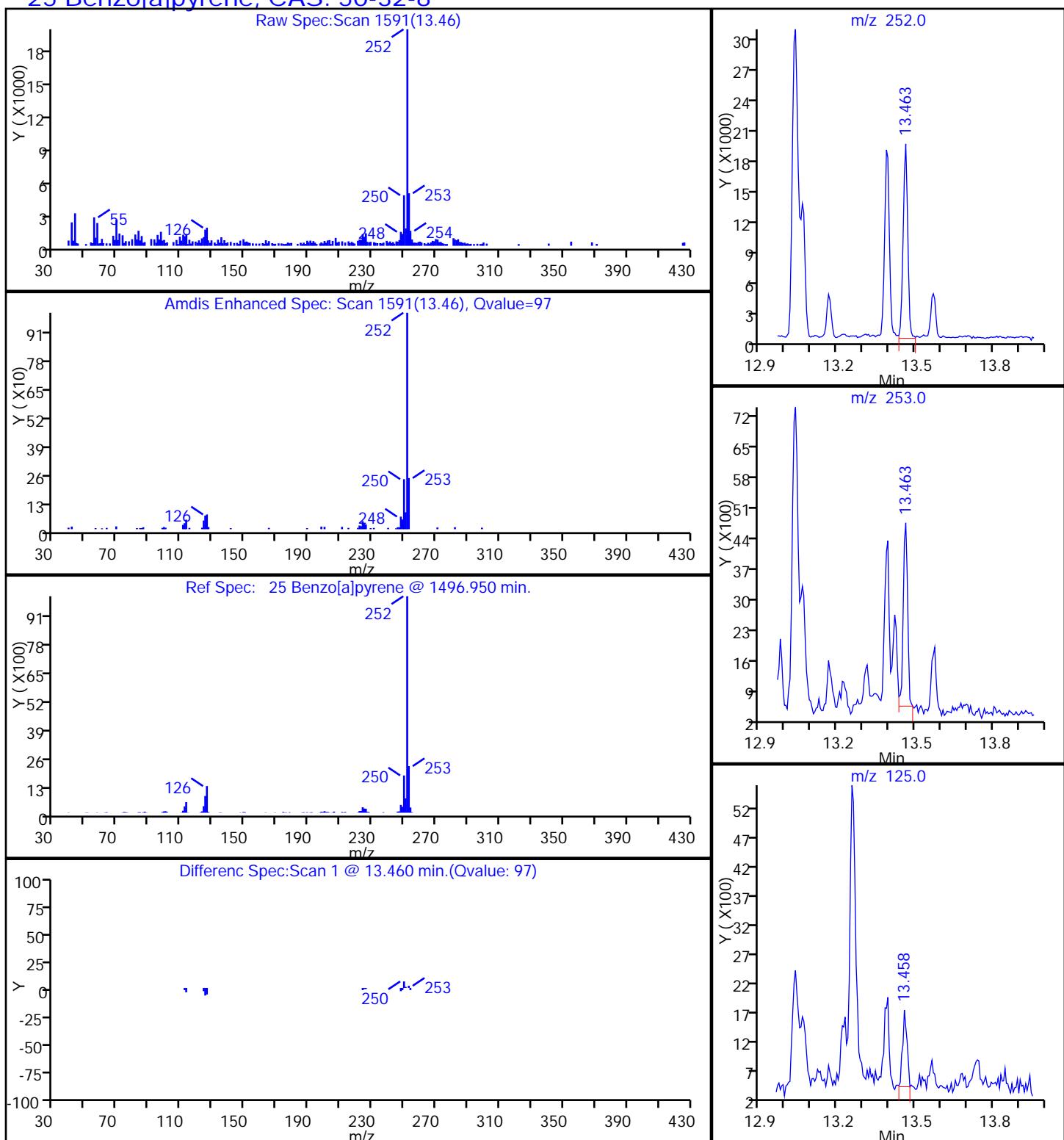
Dil. Factor: 1.0000

Method: 8270D\_LLPAH\_MSY

Limit Group: 8270D\_LL\_PAH

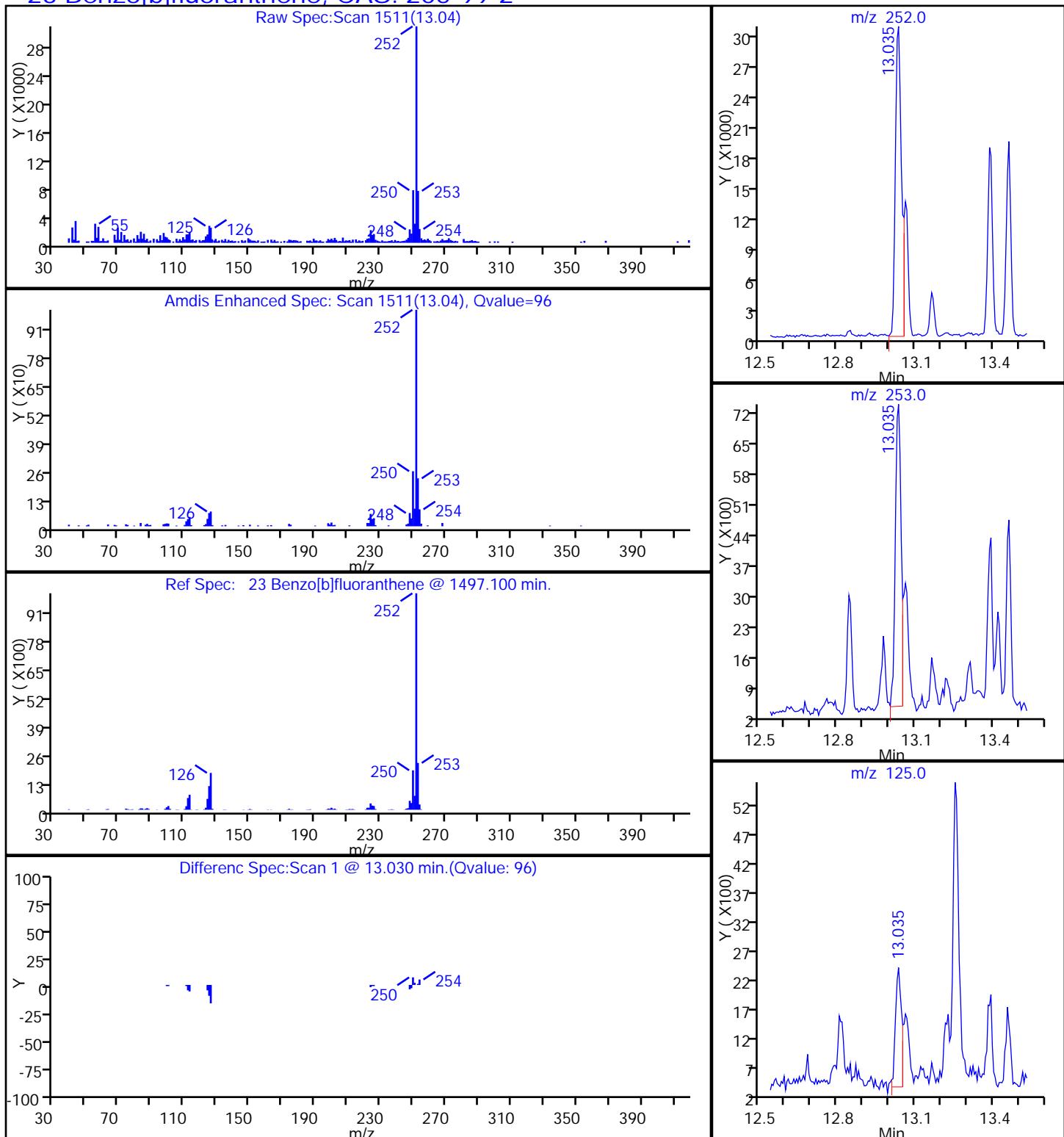
Column: Restek RXi-5Sil MS ( 0.25 mm)

Detector: MS SCAN

**25 Benzo[a]pyrene, CAS: 50-32-8**

TestAmerica Savannah  
 Data File: \\ChromNA\\Savannah\\ChromData\CMSY\\20150818-22358.b\\1YF18021.D  
 Injection Date: 18-Aug-2015 21:10:30 Instrument ID: CMSY  
 Lims ID: 680-115692-A-13-A Lab Sample ID: 680-115692-13  
 Client ID: CV0511SS-CS-24  
 Operator ID: LIMS import ALS Bottle#: 21 Worklist Smp#: 21  
 Injection Vol: 2.0 ul Dil. Factor: 1.0000  
 Method: 8270D\_LLPAH\_MSY Limit Group: 8270D\_LL\_PAH  
 Column: Restek RXi-5Sil MS ( 0.25 mm) Detector MS SCAN

### 23 Benzo[b]fluoranthene, CAS: 205-99-2



TestAmerica Savannah

Data File: \\ChromNA\\Savannah\\ChromData\CMSY\\20150818-22358.b\\1YF18021.D

Injection Date: 18-Aug-2015 21:10:30

Instrument ID: CMSY

Lims ID: 680-115692-A-13-A

Lab Sample ID: 680-115692-13

Client ID: CV0511SS-CS-24

Operator ID: LIMS import

ALS Bottle#: 21 Worklist Smp#: 21

Injection Vol: 2.0 ul

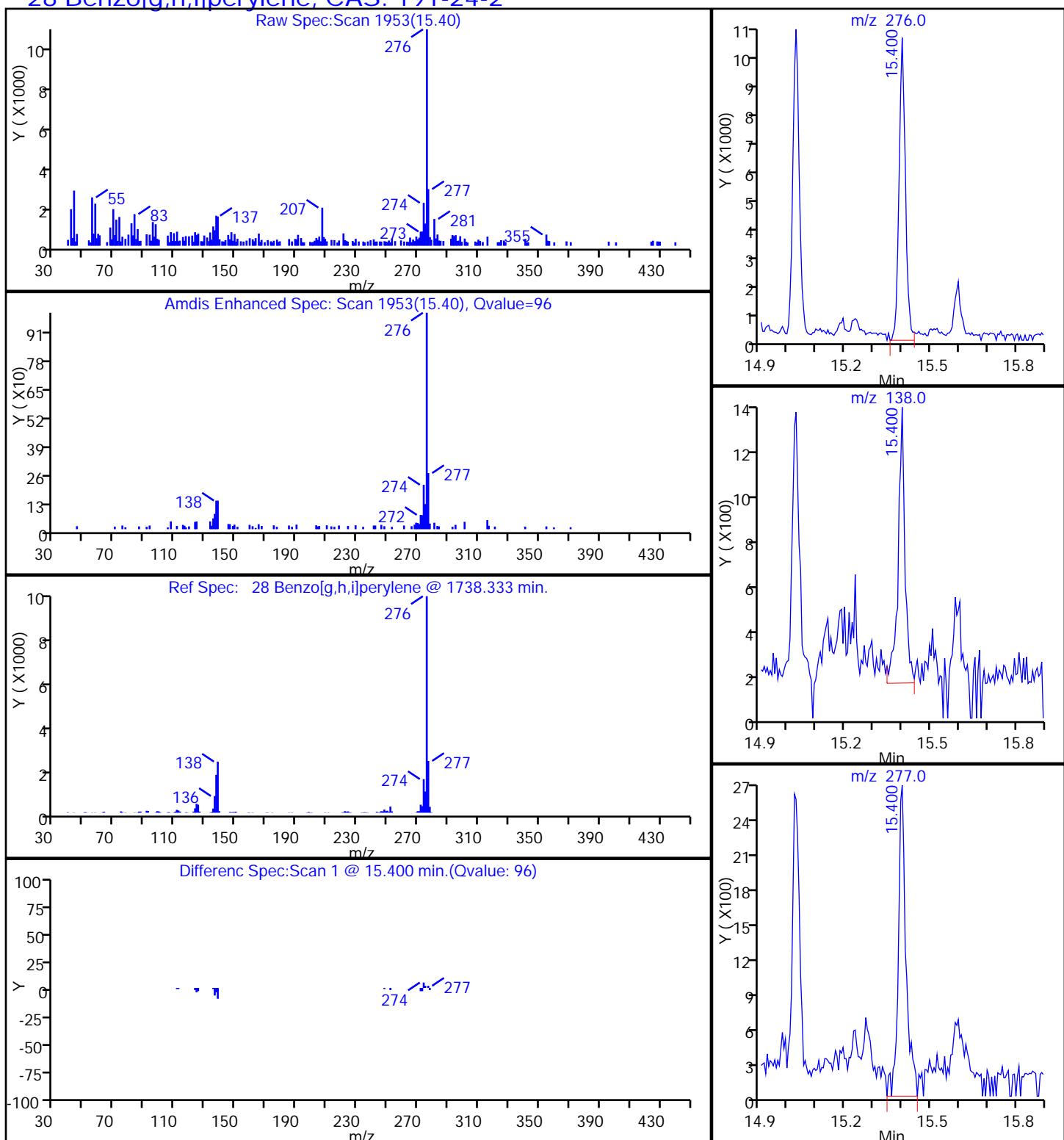
Dil. Factor: 1.0000

Method: 8270D\_LLPAH\_MSY

Limit Group: 8270D\_LL\_PAH

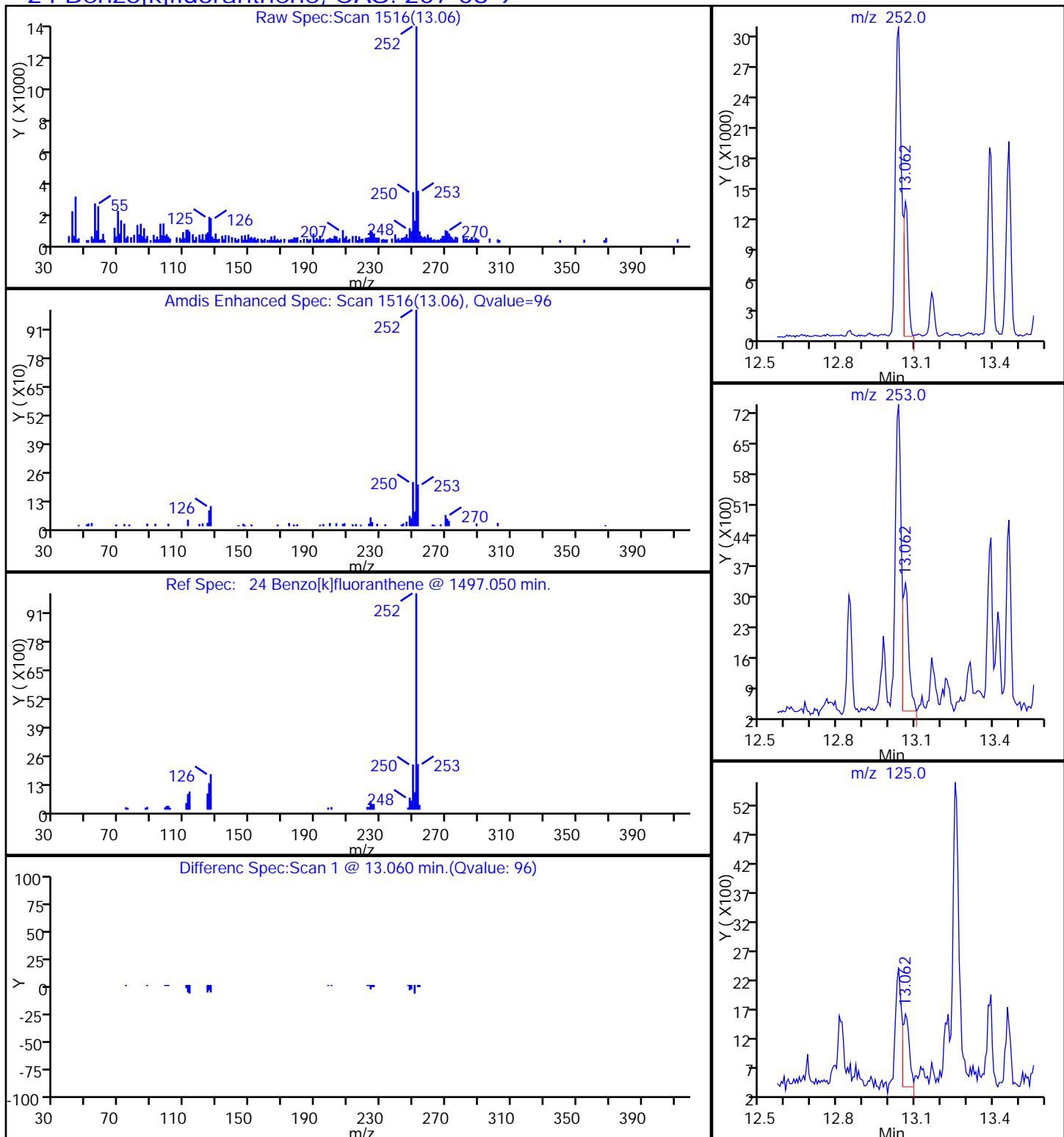
Column: Restek RXi-5Sil MS ( 0.25 mm)

Detector: MS SCAN

**28 Benzo[g,h,i]perylene, CAS: 191-24-2**

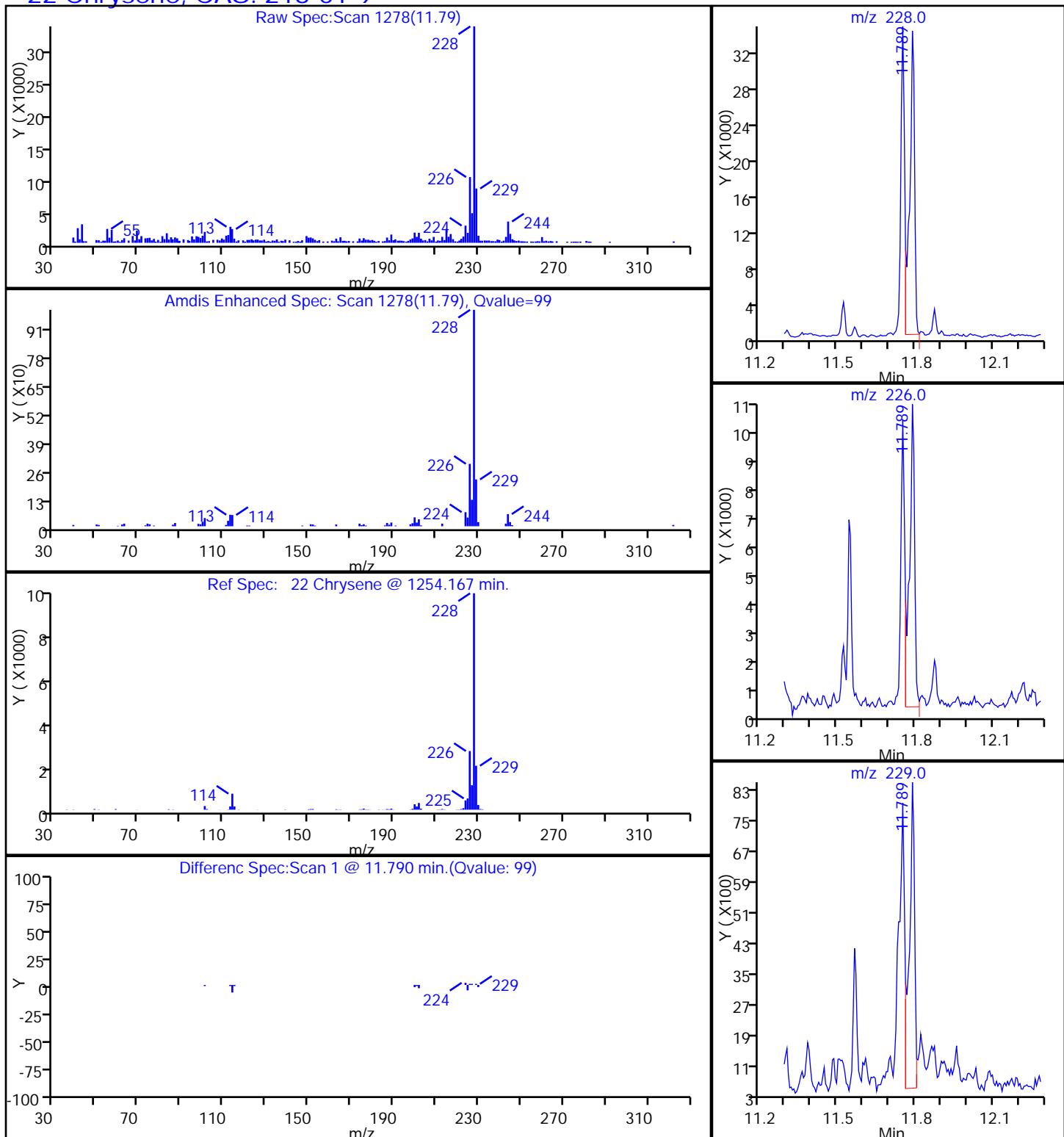
TestAmerica Savannah  
 Data File: \\ChromNA\\Savannah\\ChromData\CMSY\\20150818-22358.b\\1YF18021.D  
 Injection Date: 18-Aug-2015 21:10:30 Instrument ID: CMSY  
 Lims ID: 680-115692-A-13-A Lab Sample ID: 680-115692-13  
 Client ID: CV0511SS-CS-24  
 Operator ID: LIMS import ALS Bottle#: 21 Worklist Smp#: 21  
 Injection Vol: 2.0 ul Dil. Factor: 1.0000  
 Method: 8270D\_LLPAH\_MSY Limit Group: 8270D\_LL\_PAH  
 Column: Restek RXi-5Sil MS ( 0.25 mm) Detector MS SCAN

### 24 Benzo[k]fluoranthene, CAS: 207-08-9



TestAmerica Savannah  
 Data File: \\ChromNA\\Savannah\\ChromData\CMSY\\20150818-22358.b\\1YF18021.D  
 Injection Date: 18-Aug-2015 21:10:30 Instrument ID: CMSY  
 Lims ID: 680-115692-A-13-A Lab Sample ID: 680-115692-13  
 Client ID: CV0511SS-CS-24  
 Operator ID: LIMS import ALS Bottle#: 21 Worklist Smp#: 21  
 Injection Vol: 2.0 ul Dil. Factor: 1.0000  
 Method: 8270D\_LLPAH\_MSY Limit Group: 8270D\_LL\_PAH  
 Column: Restek RXi-5Sil MS ( 0.25 mm) Detector: MS SCAN

### 22 Chrysene, CAS: 218-01-9



TestAmerica Savannah

Data File: \\ChromNA\\Savannah\\ChromData\CMSY\\20150818-22358.b\\1YF18021.D

Injection Date: 18-Aug-2015 21:10:30

Instrument ID: CMSY

Lims ID: 680-115692-A-13-A

Lab Sample ID: 680-115692-13

Client ID: CV0511SS-CS-24

Operator ID: LIMS import

ALS Bottle#: 21 Worklist Smp#: 21

Injection Vol: 2.0 ul

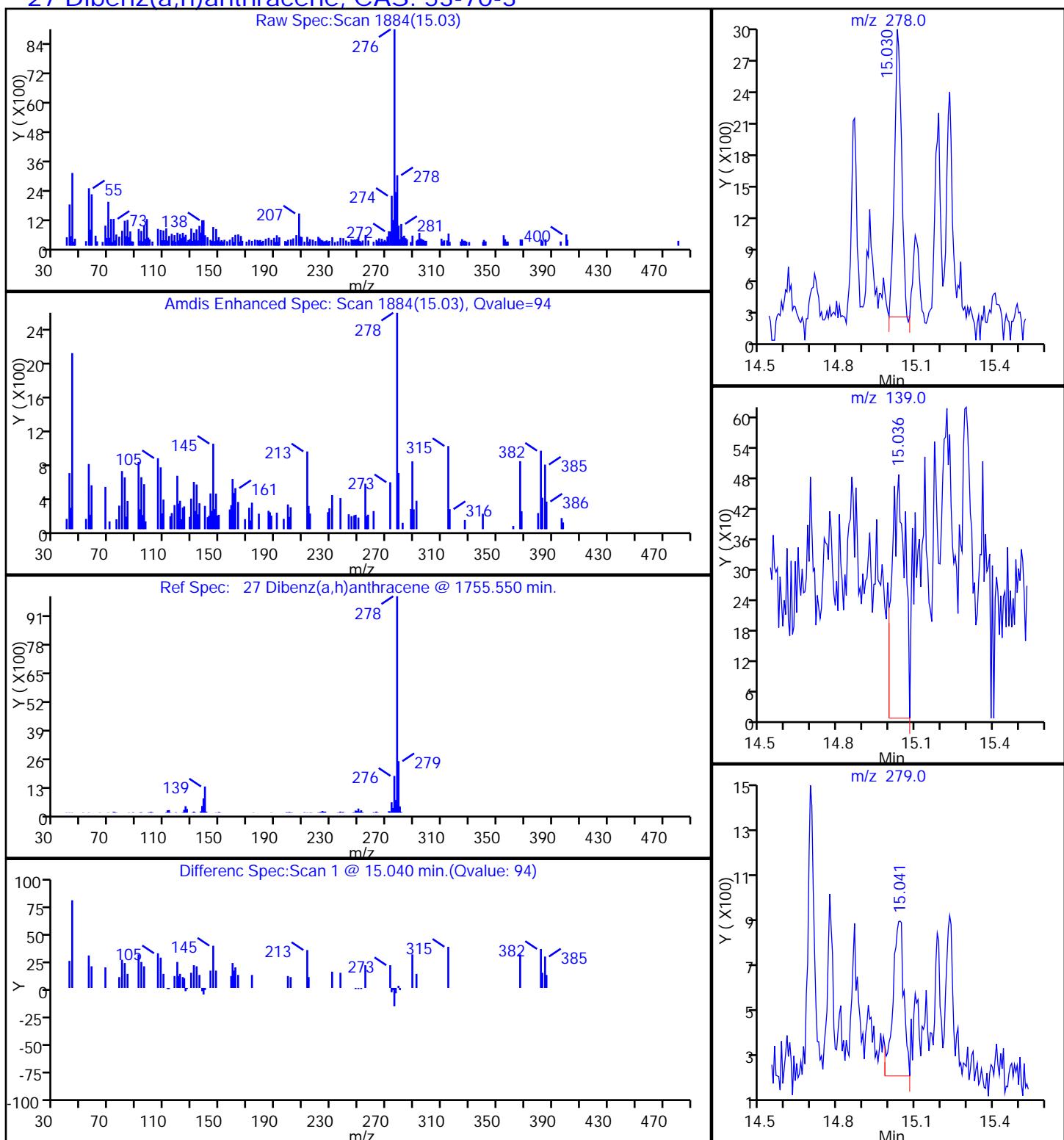
Dil. Factor: 1.0000

Method: 8270D\_LLPAH\_MSY

Limit Group: 8270D\_LL\_PAH

Column: Restek RXi-5Sil MS ( 0.25 mm)

Detector: MS SCAN

**27 Dibenz(a,h)anthracene, CAS: 53-70-3**

TestAmerica Savannah

Data File: \\ChromNA\\Savannah\\ChromData\CMSY\\20150818-22358.b\\1YF18021.D

Injection Date: 18-Aug-2015 21:10:30

Instrument ID: CMSY

Lims ID: 680-115692-A-13-A

Lab Sample ID: 680-115692-13

Client ID: CV0511SS-CS-24

Operator ID: LIMS import

ALS Bottle#: 21 Worklist Smp#: 21

Injection Vol: 2.0 ul

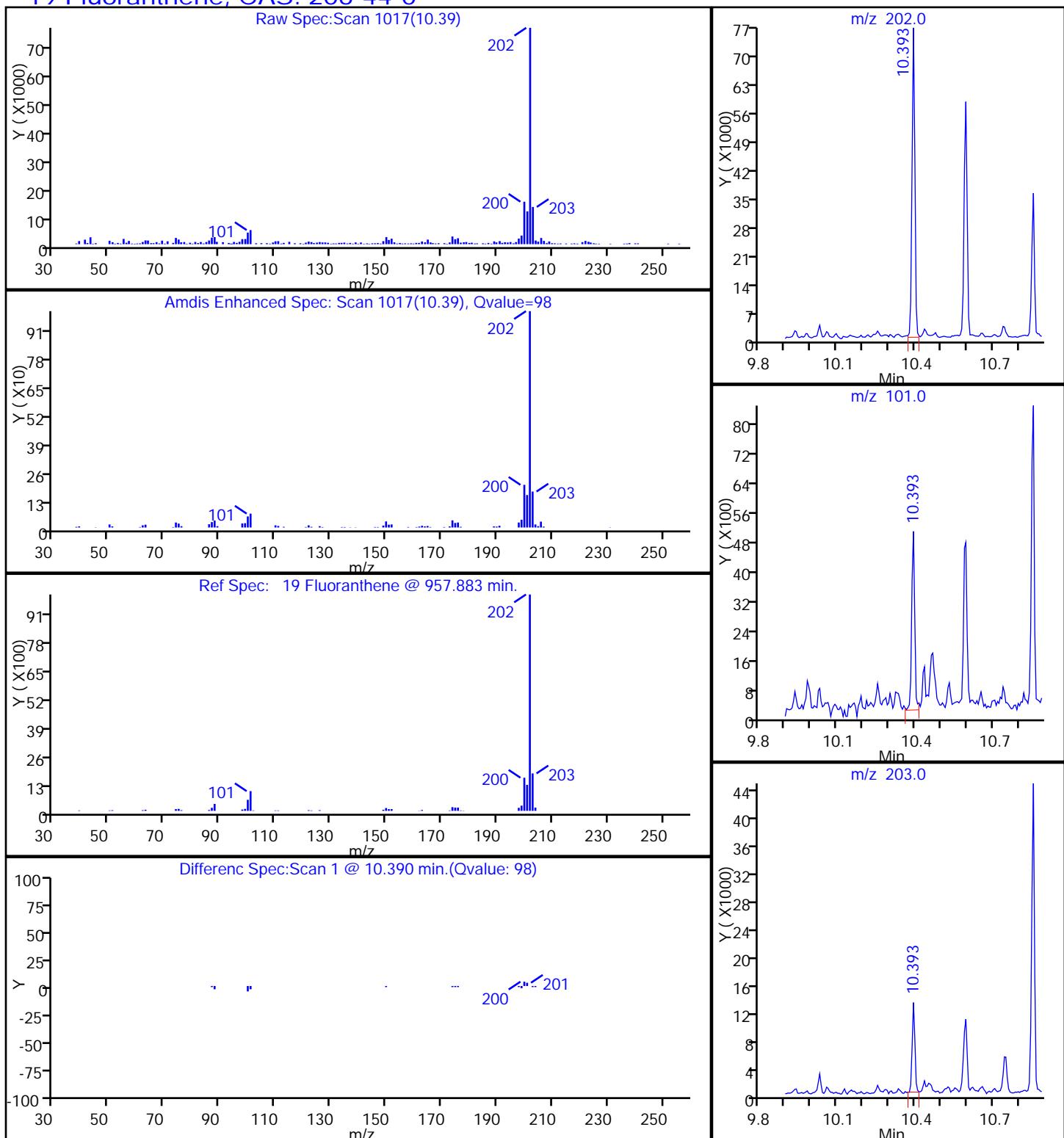
Dil. Factor: 1.0000

Method: 8270D\_LLPAH\_MSY

Limit Group: 8270D\_LL\_PAH

Column: Restek RXi-5Sil MS ( 0.25 mm)

Detector MS SCAN

**19 Fluoranthene, CAS: 206-44-0**

TestAmerica Savannah

Data File: \\ChromNA\\Savannah\\ChromData\CMSY\\20150818-22358.b\\1YF18021.D

Injection Date: 18-Aug-2015 21:10:30

Instrument ID: CMSY

Lims ID: 680-115692-A-13-A

Lab Sample ID: 680-115692-13

Client ID: CV0511SS-CS-24

Operator ID: LIMS import

ALS Bottle#: 21 Worklist Smp#: 21

Injection Vol: 2.0 ul

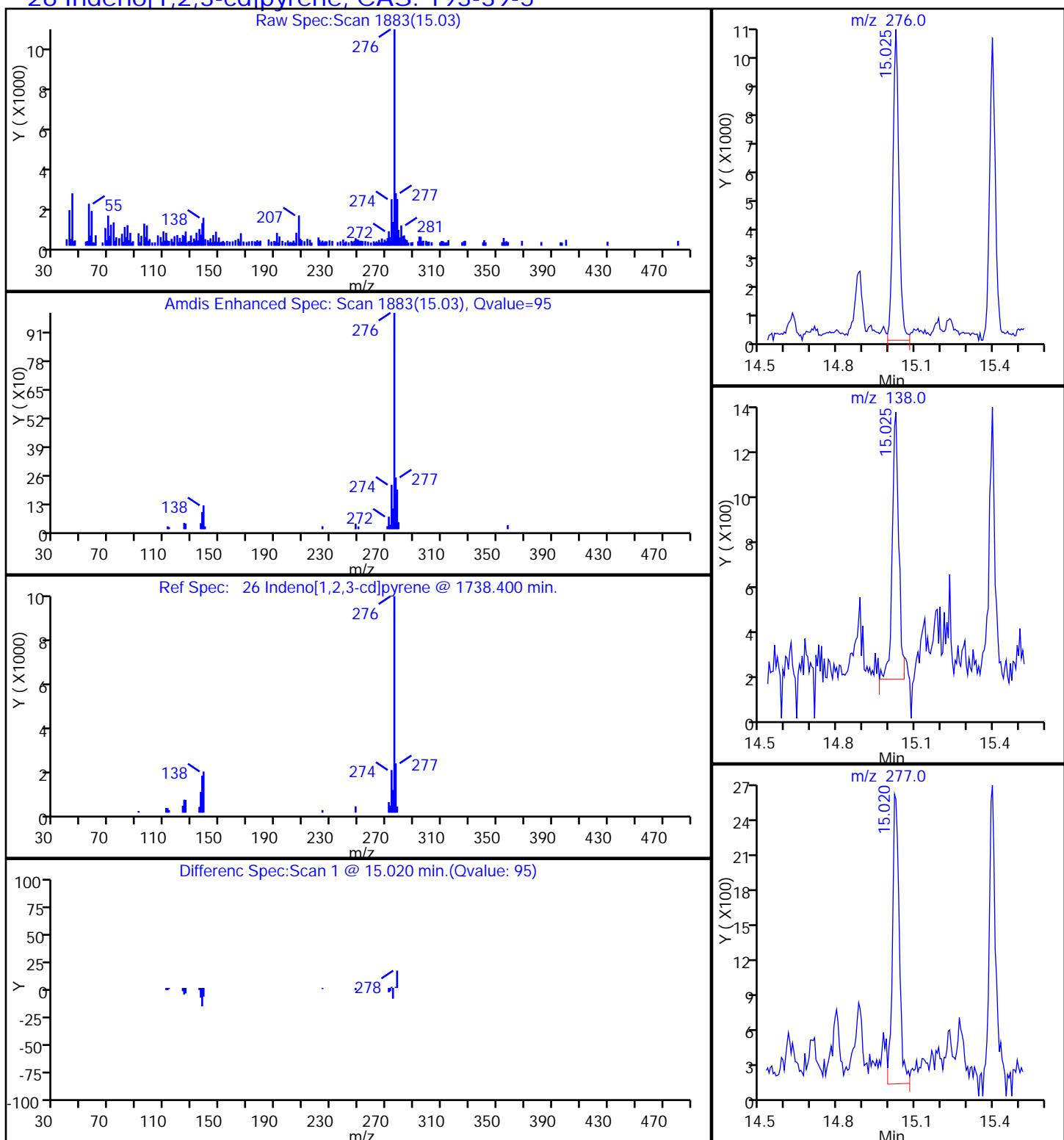
Dil. Factor: 1.0000

Method: 8270D\_LLPAH\_MSY

Limit Group: 8270D\_LL\_PAH

Column: Restek RXi-5Sil MS ( 0.25 mm)

Detector: MS SCAN

**26 Indeno[1,2,3-cd]pyrene, CAS: 193-39-5**

TestAmerica Savannah

Data File: \\ChromNA\\Savannah\\ChromData\CMSY\\20150818-22358.b\\1YF18021.D

Injection Date: 18-Aug-2015 21:10:30

Instrument ID: CMSY

Lims ID: 680-115692-A-13-A

Lab Sample ID: 680-115692-13

Client ID: CV0511SS-CS-24

Operator ID: LIMS import

ALS Bottle#: 21 Worklist Smp#: 21

Injection Vol: 2.0 ul

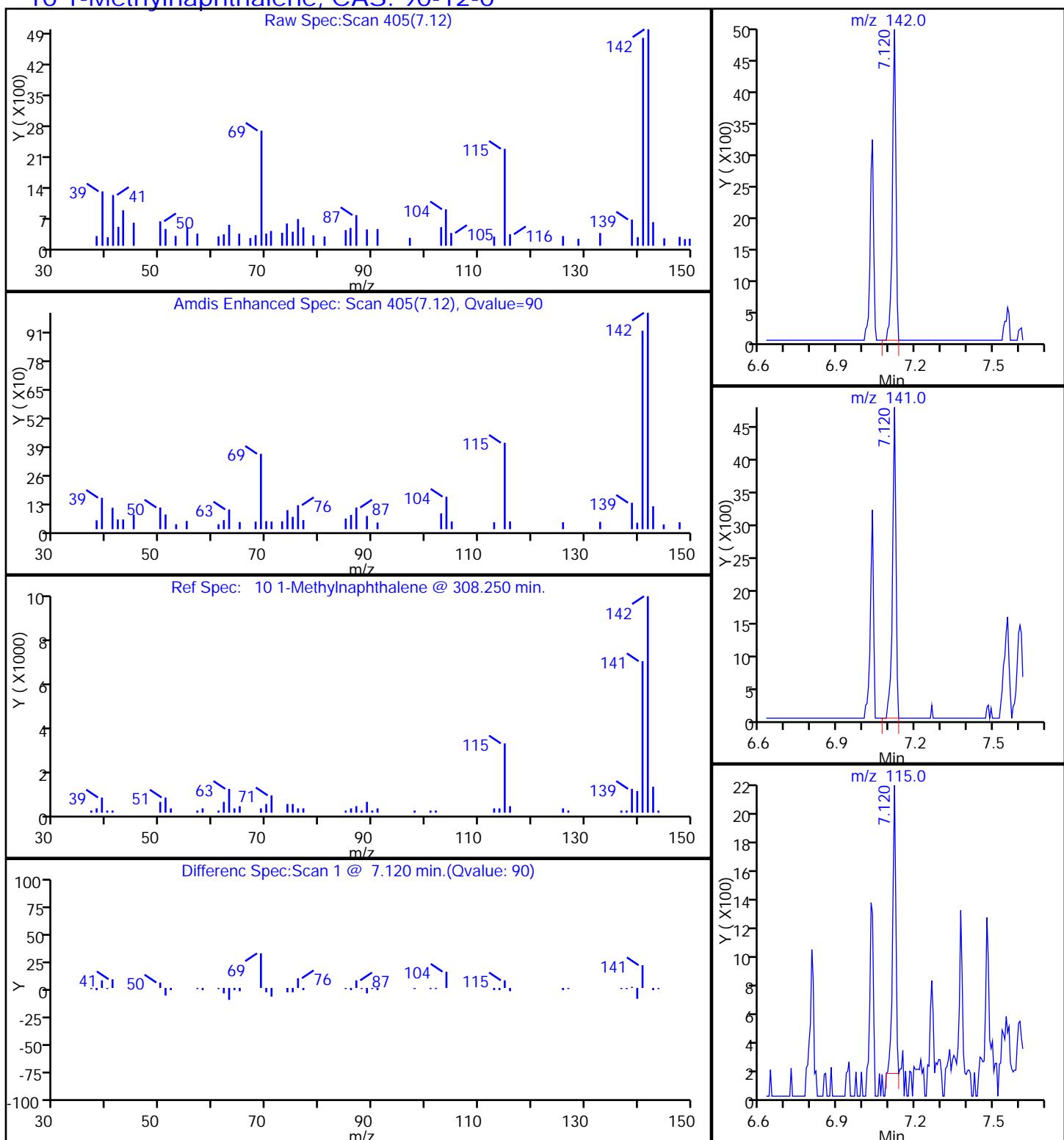
Dil. Factor: 1.0000

Method: 8270D\_LLPAH\_MSY

Limit Group: 8270D\_LL\_PAH

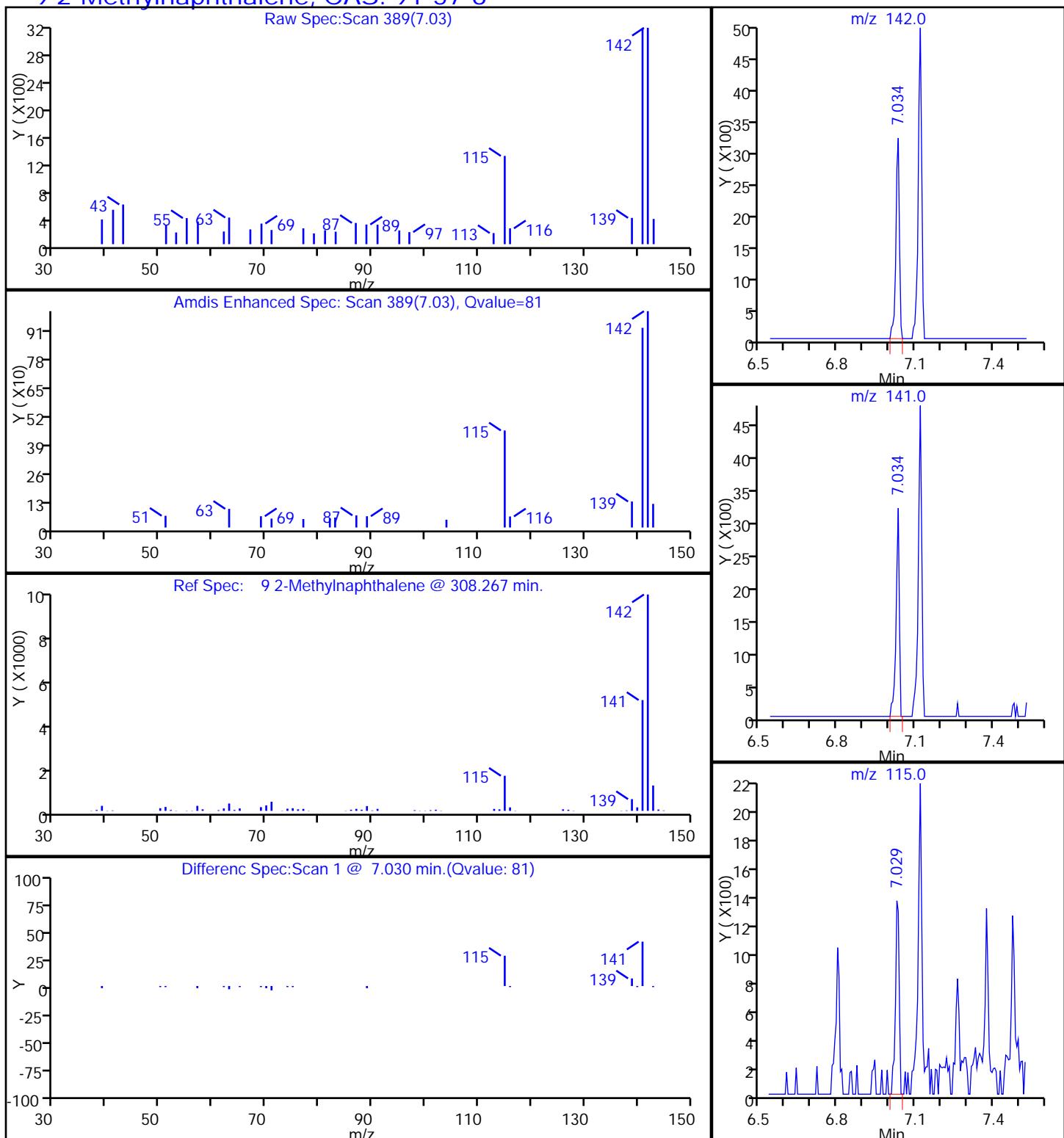
Column: Restek RXi-5Sil MS ( 0.25 mm)

Detector: MS SCAN

**10 1-Methylnaphthalene, CAS: 90-12-0**

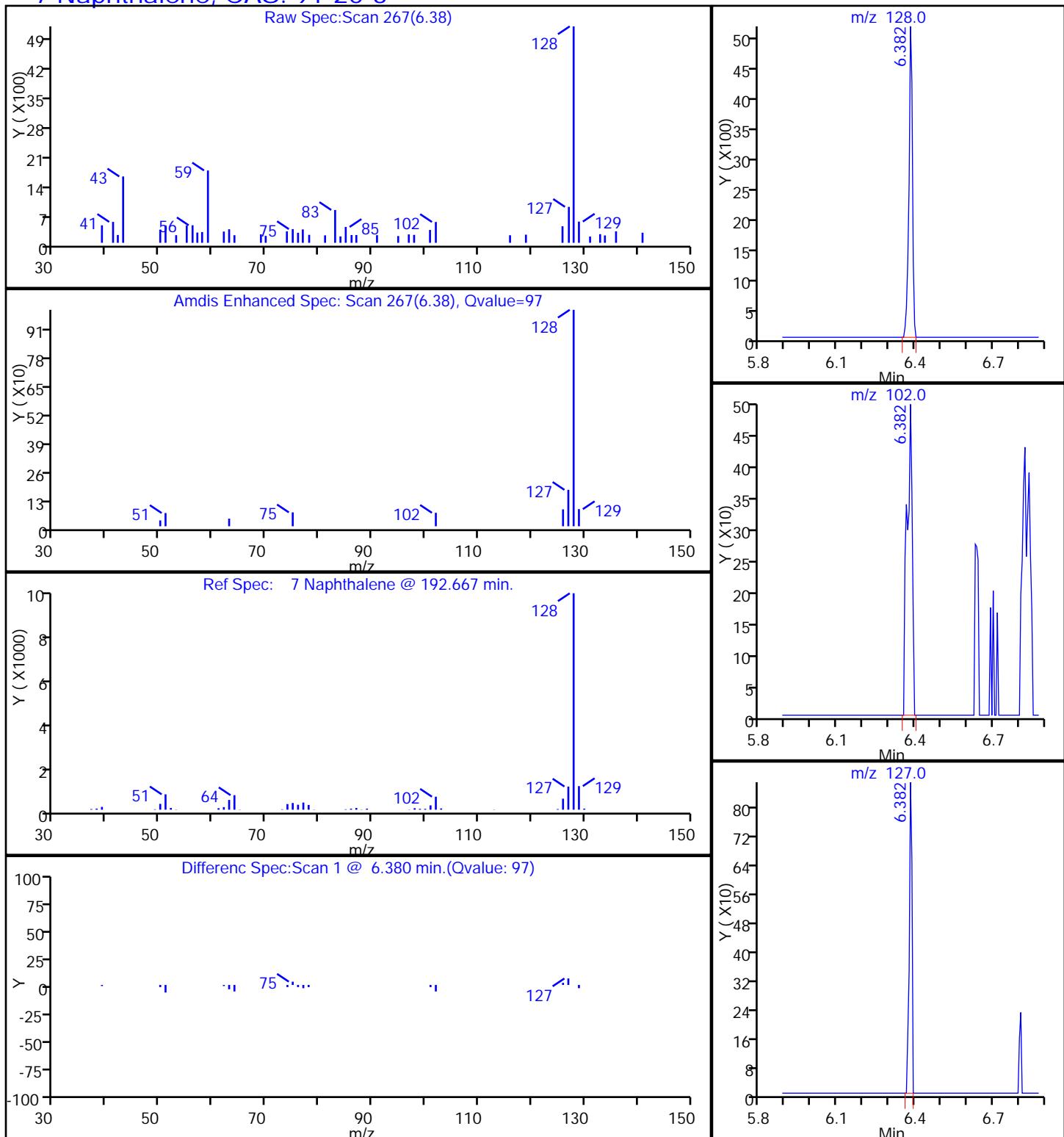
TestAmerica Savannah  
 Data File: \\ChromNA\\Savannah\\ChromData\CMSY\\20150818-22358.b\\1YF18021.D  
 Injection Date: 18-Aug-2015 21:10:30 Instrument ID: CMSY  
 Lims ID: 680-115692-A-13-A Lab Sample ID: 680-115692-13  
 Client ID: CV0511SS-CS-24  
 Operator ID: LIMS import ALS Bottle#: 21 Worklist Smp#: 21  
 Injection Vol: 2.0 ul Dil. Factor: 1.0000  
 Method: 8270D\_LLPAH\_MSY Limit Group: 8270D\_LL\_PAH  
 Column: Restek RXi-5Sil MS ( 0.25 mm) Detector: MS SCAN

### 9 2-Methylnaphthalene, CAS: 91-57-6



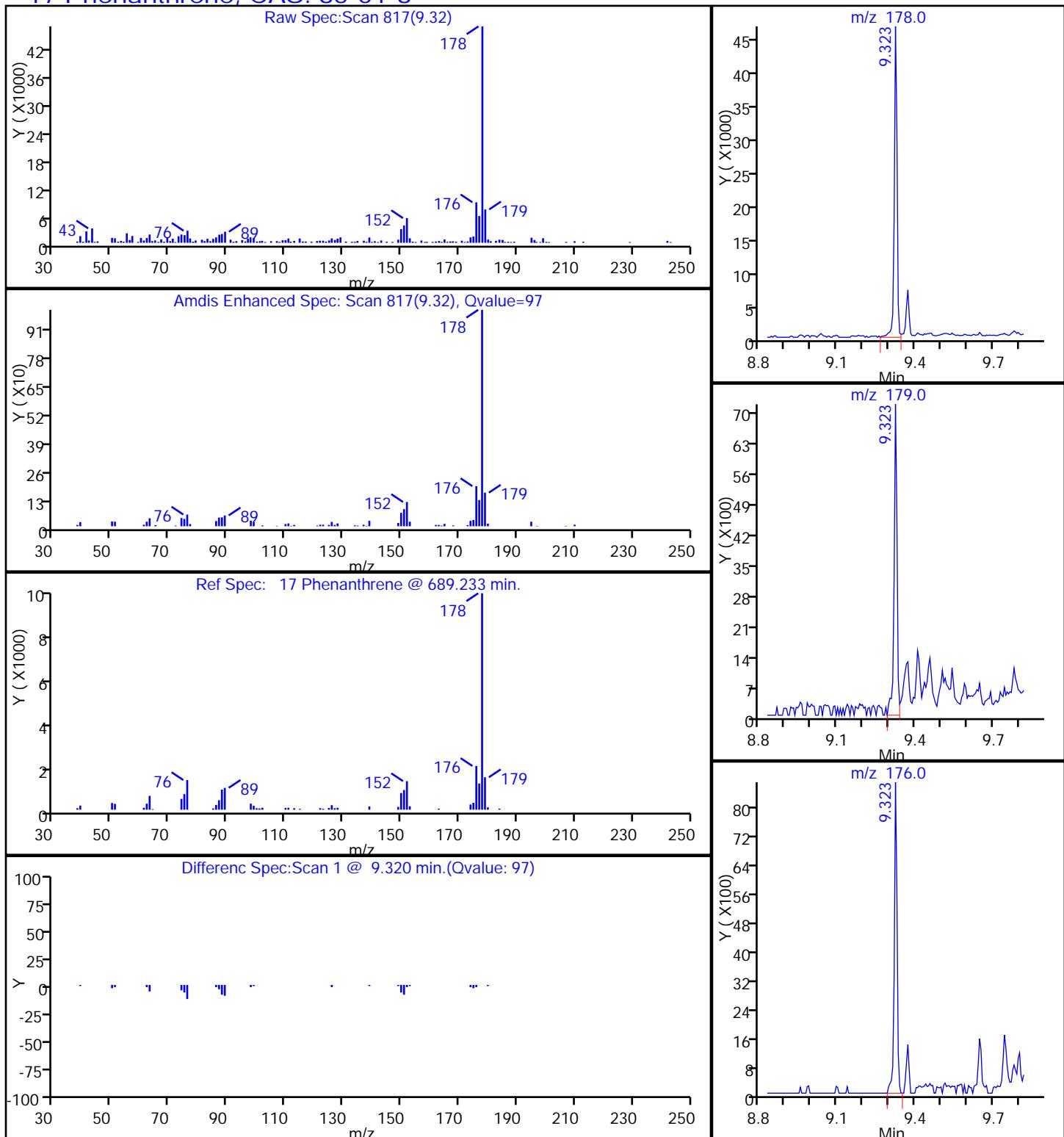
TestAmerica Savannah  
 Data File: \\ChromNA\\Savannah\\ChromData\\CMSY\\20150818-22358.b\\1YF18021.D  
 Injection Date: 18-Aug-2015 21:10:30 Instrument ID: CMSY  
 Lims ID: 680-115692-A-13-A Lab Sample ID: 680-115692-13  
 Client ID: CV0511SS-CS-24  
 Operator ID: LIMS import ALS Bottle#: 21 Worklist Smp#: 21  
 Injection Vol: 2.0 ul Dil. Factor: 1.0000  
 Method: 8270D\_LLPAH\_MSY Limit Group: 8270D\_LL\_PAH  
 Column: Restek RXi-5Sil MS ( 0.25 mm) Detector: MS SCAN

### 7 Naphthalene, CAS: 91-20-3



TestAmerica Savannah  
 Data File: \\ChromNA\\Savannah\\ChromData\\CMSY\\20150818-22358.b\\1YF18021.D  
 Injection Date: 18-Aug-2015 21:10:30 Instrument ID: CMSY  
 Lims ID: 680-115692-A-13-A Lab Sample ID: 680-115692-13  
 Client ID: CV0511SS-CS-24  
 Operator ID: LIMS import ALS Bottle#: 21 Worklist Smp#: 21  
 Injection Vol: 2.0 ul Dil. Factor: 1.0000  
 Method: 8270D\_LLPAH\_MSY Limit Group: 8270D\_LL\_PAH  
 Column: Restek RXi-5Sil MS ( 0.25 mm) Detector MS SCAN

### 17 Phenanthrene, CAS: 85-01-8



TestAmerica Savannah

Data File: \\ChromNA\\Savannah\\ChromData\CMSY\\20150818-22358.b\\1YF18021.D

Injection Date: 18-Aug-2015 21:10:30

Instrument ID: CMSY

Lims ID: 680-115692-A-13-A

Lab Sample ID: 680-115692-13

Client ID: CV0511SS-CS-24

Operator ID: LIMS import

ALS Bottle#: 21 Worklist Smp#: 21

Injection Vol: 2.0 ul

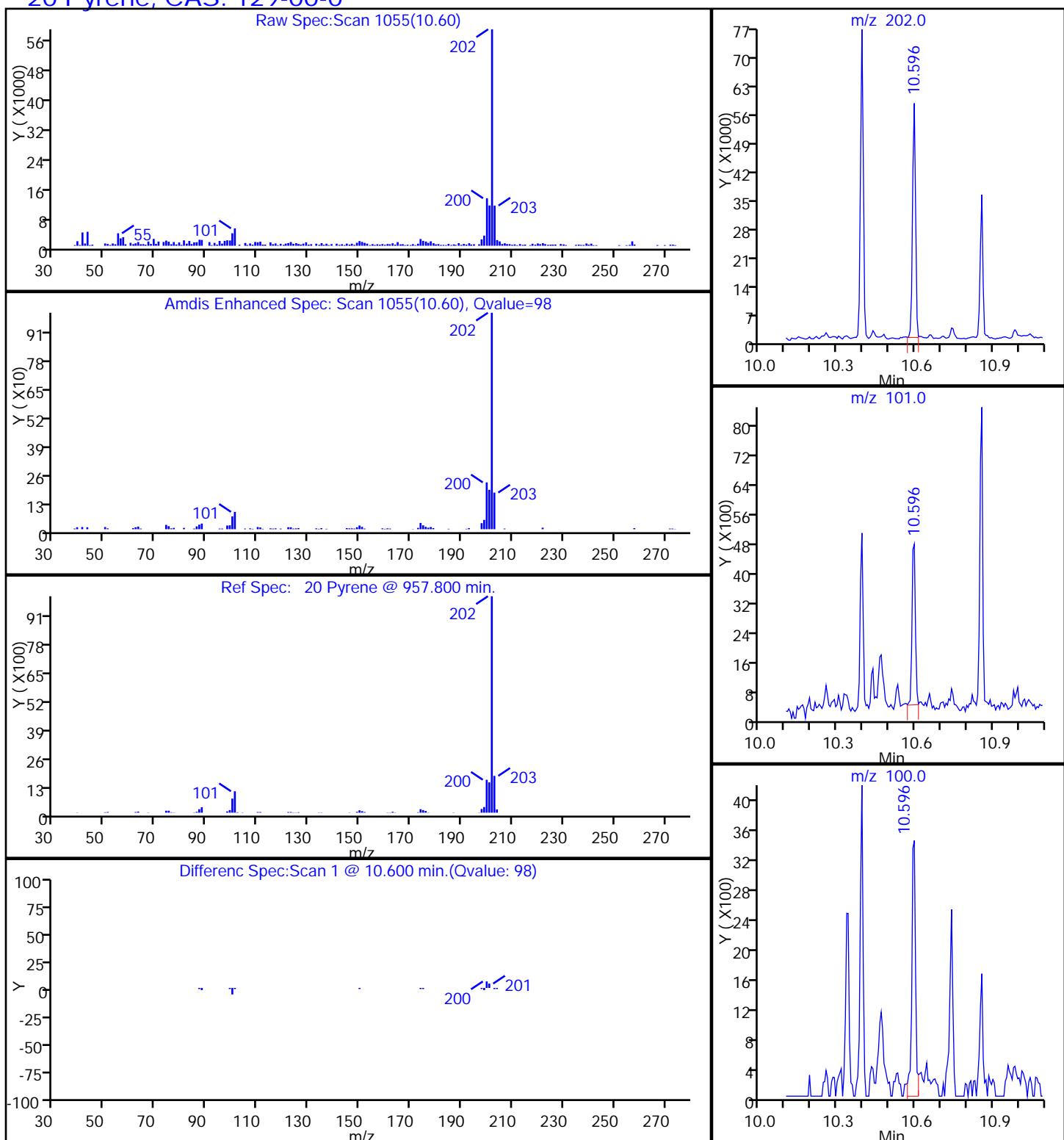
Dil. Factor: 1.0000

Method: 8270D\_LLPAH\_MSY

Limit Group: 8270D\_LL\_PAH

Column: Restek RXi-5Sil MS ( 0.25 mm)

Detector: MS SCAN

**20 Pyrene, CAS: 129-00-0**

FORM I  
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Savannah Job No.: 680-115692-1  
 SDG No.: 680-115692-01  
 Client Sample ID: CV0511HHH-CS-6 Lab Sample ID: 680-115692-14  
 Matrix: Solid Lab File ID: 1YF18022.D  
 Analysis Method: 8270D\_LL\_PAH Date Collected: 08/11/2015 08:40  
 Extract. Method: 3546 Date Extracted: 08/17/2015 10:44  
 Sample wt/vol: 30.13(g) Date Analyzed: 08/18/2015 21:38  
 Con. Extract Vol.: 1(mL) Dilution Factor: 10  
 Injection Volume: 2(uL) Level: (low/med) Low  
 % Moisture: 9.5 GPC Cleanup: (Y/N) N  
 Analysis Batch No.: 396712 Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	74	U	74	36
208-96-8	Acenaphthylene	74	U	74	36
120-12-7	Anthracene	53	J	74	36
56-55-3	Benzo[a]anthracene	220		74	36
50-32-8	Benzo[a]pyrene	190		74	13
205-99-2	Benzo[b]fluoranthene	300		74	36
191-24-2	Benzo[g,h,i]perylene	89		74	36
207-08-9	Benzo[k]fluoranthene	130		74	22
218-01-9	Chrysene	210		74	36
53-70-3	Dibenz(a,h)anthracene	74	U	74	36
206-44-0	Fluoranthene	450		74	36
86-73-7	Fluorene	74	U	74	36
193-39-5	Indeno[1,2,3-cd]pyrene	57	J	74	36
90-12-0	1-Methylnaphthalene	74	U	74	34
91-57-6	2-Methylnaphthalene	74	U	74	36
91-20-3	Naphthalene	74	U	74	36
85-01-8	Phenanthrene	250		74	26
129-00-0	Pyrene	340		74	36

CAS NO.	SURROGATE	%REC	Q	LIMITS
84-15-1	o-Terphenyl	0	D	36-131

TestAmerica Savannah  
Target Compound Quantitation Report

Data File: \\ChromNA\Savannah\ChromData\CMSY\20150818-22358.b\1YF18022.D  
 Lims ID: 680-115692-A-14-A Lab Sample ID: 680-115692-14  
 Client ID: CV0511HHH-CS-6  
 Sample Type: Client  
 Inject. Date: 18-Aug-2015 21:38:30 ALS Bottle#: 22 Worklist Smp#: 22  
 Injection Vol: 2.0 ul Dil. Factor: 10.0000  
 Sample Info: 680-115692-A-14-A  
 Misc. Info.: 680-0022358-022  
 Operator ID: LIMS import Instrument ID: CMSY  
 Method: \\ChromNA\Savannah\ChromData\CMSY\20150818-22358.b\8270D\_LLPAH\_MSY.m  
 Limit Group: 8270D\_LL\_PAH  
 Last Update: 19-Aug-2015 11:22:28 Calib Date: 12-Aug-2015 16:37:30  
 Integrator: RTE ID Type: Deconvolution ID  
 Quant Method: Internal Standard Quant By: Initial Calibration  
 Last ICAL File: \\ChromNA\Savannah\ChromData\CMSY\20150812-22174.b\1YF12008.D  
 Column 1 : Restek RXi-5Sil MS ( 0.25 mm) Det: MS SCAN  
 Process Host: XAWRK003

First Level Reviewer: millsj Date: 19-Aug-2015 11:16:54

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/ml	Flags
* 1 Naphthalene-d8	136	6.366	6.366	0.000	99	49567	2.00	
* 2 Acenaphthene-d10	164	7.970	7.975	-0.005	97	27292	2.00	
* 3 Phenanthrene-d10	188	9.302	9.307	-0.005	97	60969	2.00	
* 4 Chrysene-d12	240	11.757	11.773	-0.016	98	86622	2.00	
* 5 Perylene-d12	264	13.527	13.538	-0.011	98	71423	2.00	
14 Acenaphthene	153	8.002	8.002	0.000	87	892	0.0547	
17 Phenanthrene	178	9.323	9.329	-0.006	96	19526	0.6701	
18 Anthracene	178	9.372	9.371	0.001	56	3606	0.1441	
19 Fluoranthene	202	10.388	10.398	-0.010	98	42975	1.23	
20 Pyrene	202	10.591	10.602	-0.011	98	34993	0.9243	
21 Benzo[a]anthracene	228	11.746	11.762	-0.016	96	25111	0.6024	
22 Chrysene	228	11.789	11.805	-0.016	99	22555	0.5660	
23 Benzo[b]fluoranthene	252	13.025	13.041	-0.016	96	28463	0.8153	
24 Benzo[k]fluoranthene	252	13.057	13.078	-0.021	1	11807	0.3465	
25 Benzo[a]pyrene	252	13.453	13.469	-0.016	98	17071	0.5259	
26 Indeno[1,2,3-cd]pyrene	276	15.009	15.025	-0.016	95	9835	0.1544	
28 Benzo[g,h,i]perylene	276	15.383	15.399	-0.016	95	9190	0.2434	

**Reagents:**

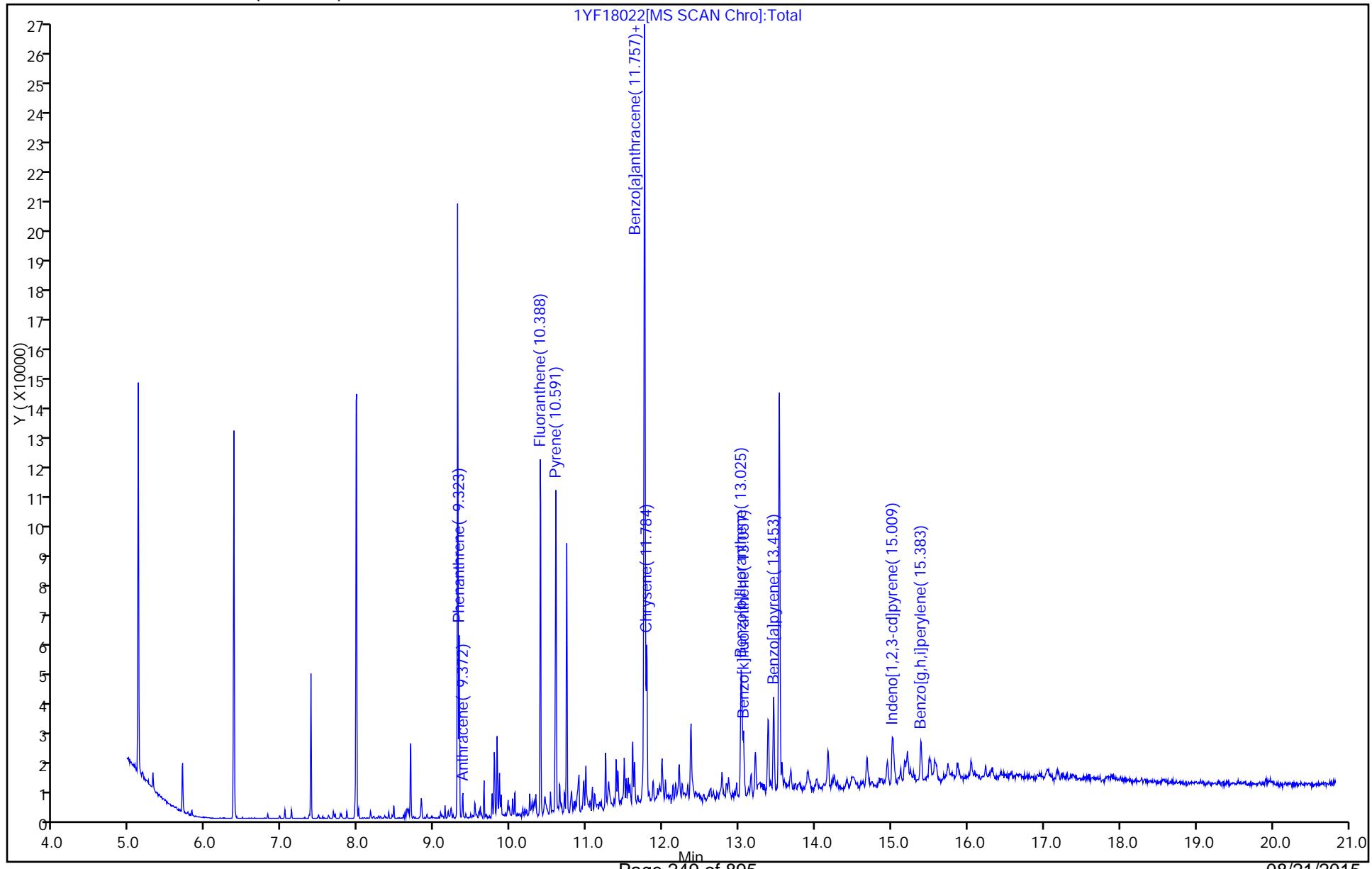
SM-LLISTD\_00128 Amount Added: 10.00 Units: uL Run Reagent

Report Date: 19-Aug-2015 11:22:56

Chrom Revision: 2.2 23-Jul-2015 08:26:08

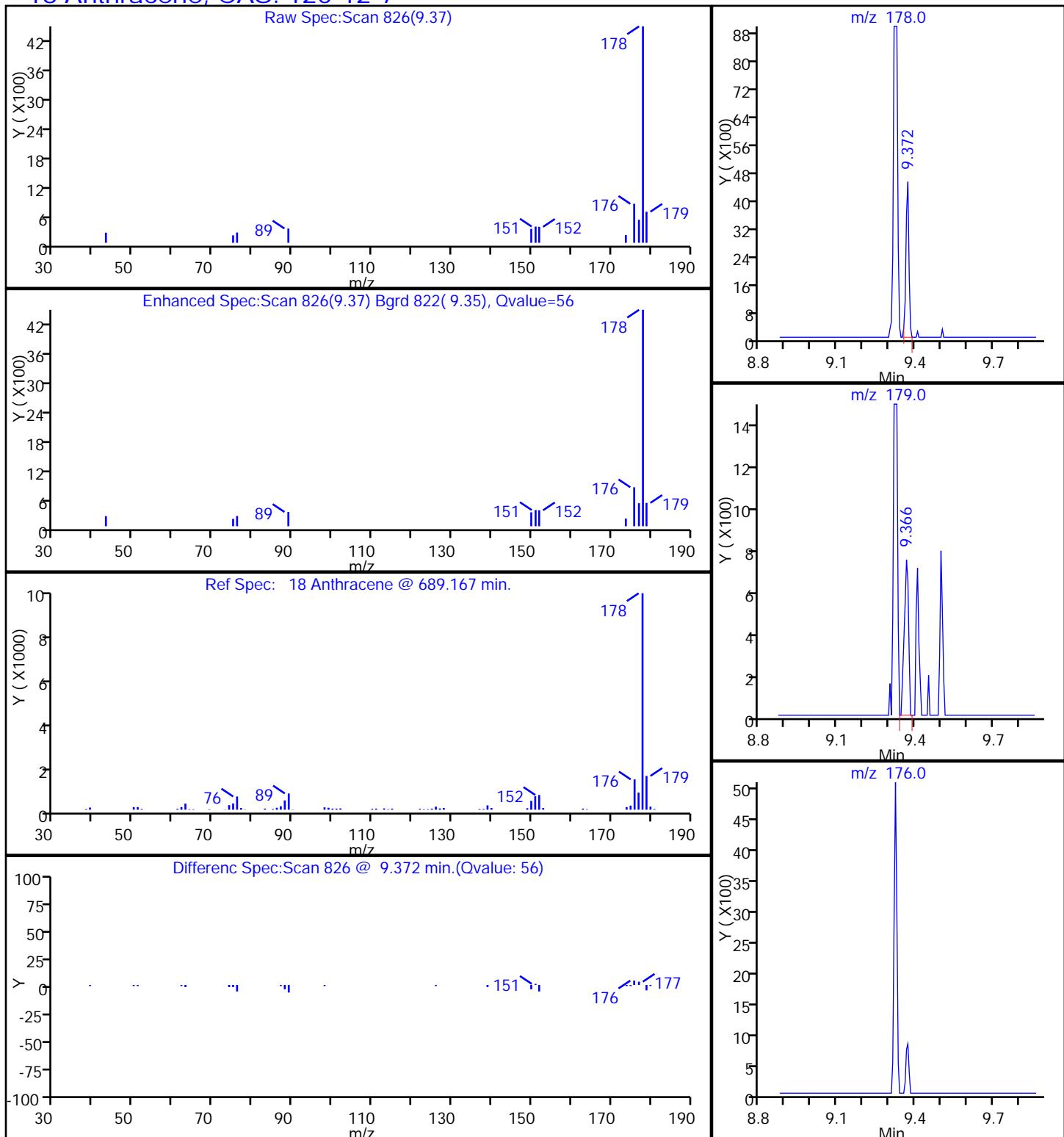
## TestAmerica Savannah

Data File: \\ChromNA\\Savannah\\ChromData\CMSY\\20150818-22358.b\\1YF18022.D  
Injection Date: 18-Aug-2015 21:38:30 Instrument ID: CMSY Operator ID: LIMS import  
Lims ID: 680-115692-A-14-A Lab Sample ID: 680-115692-14 Worklist Smp#: 22  
Client ID: CV0511HHH-CS-6  
Injection Vol: 2.0 ul Dil. Factor: 10.0000 ALS Bottle#: 22  
Method: 8270D\_LLPAH\_MSY Limit Group: 8270D\_LL\_PAH  
Column: Restek RXi-5Sil MS ( 0.25 mm)



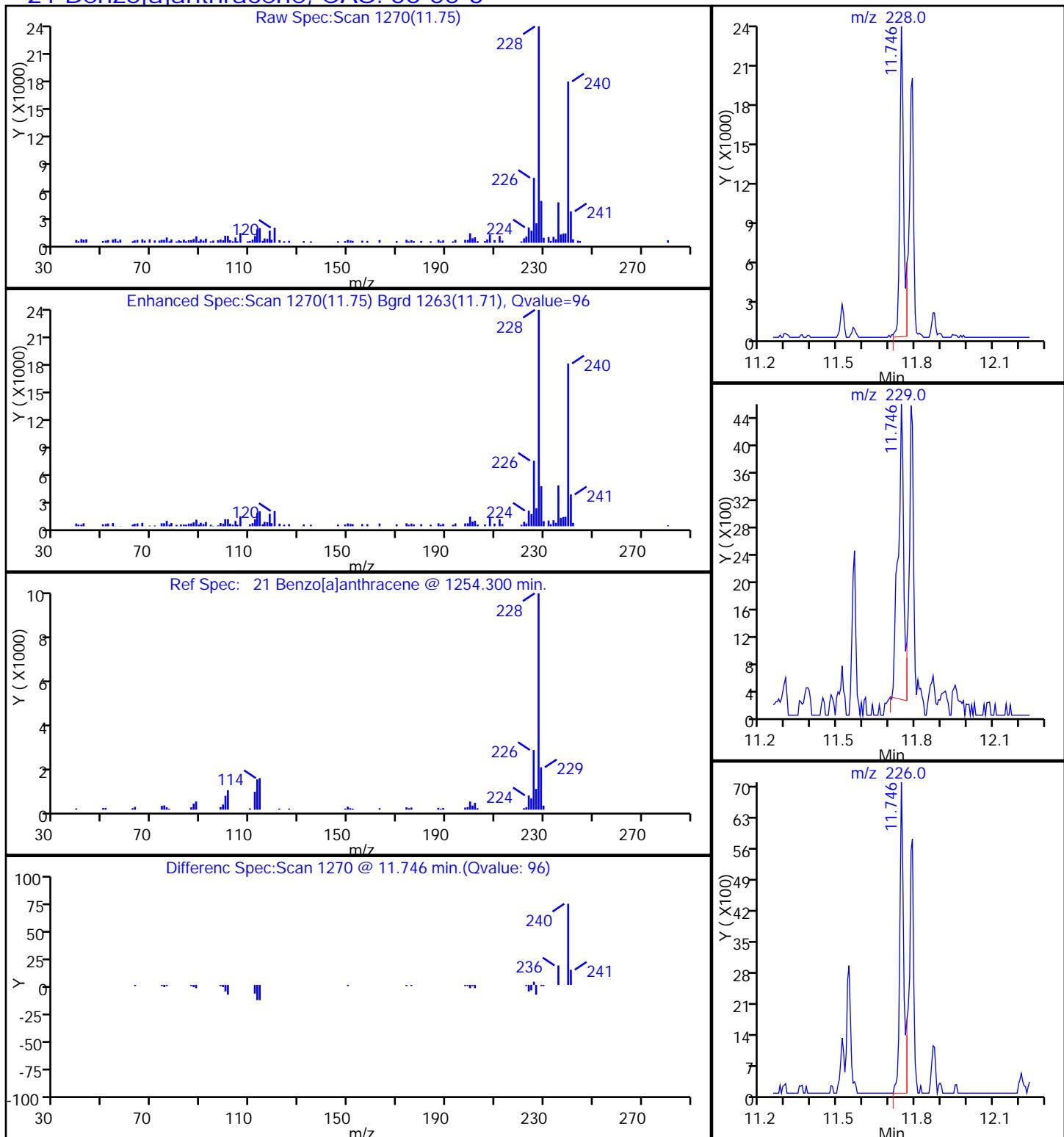
TestAmerica Savannah  
 Data File: \\ChromNA\\Savannah\\ChromData\\CMSY\\20150818-22358.b\\1YF18022.D  
 Injection Date: 18-Aug-2015 21:38:30 Instrument ID: CMSY  
 Lims ID: 680-115692-A-14-A Lab Sample ID: 680-115692-14  
 Client ID: CV0511HHH-CS-6  
 Operator ID: LIMS import ALS Bottle#: 22 Worklist Smp#: 22  
 Injection Vol: 2.0 ul Dil. Factor: 10.0000  
 Method: 8270D\_LLPAH\_MSY Limit Group: 8270D\_LL\_PAH  
 Column: Restek RXi-5Sil MS ( 0.25 mm) Detector: MS SCAN

## 18 Anthracene, CAS: 120-12-7



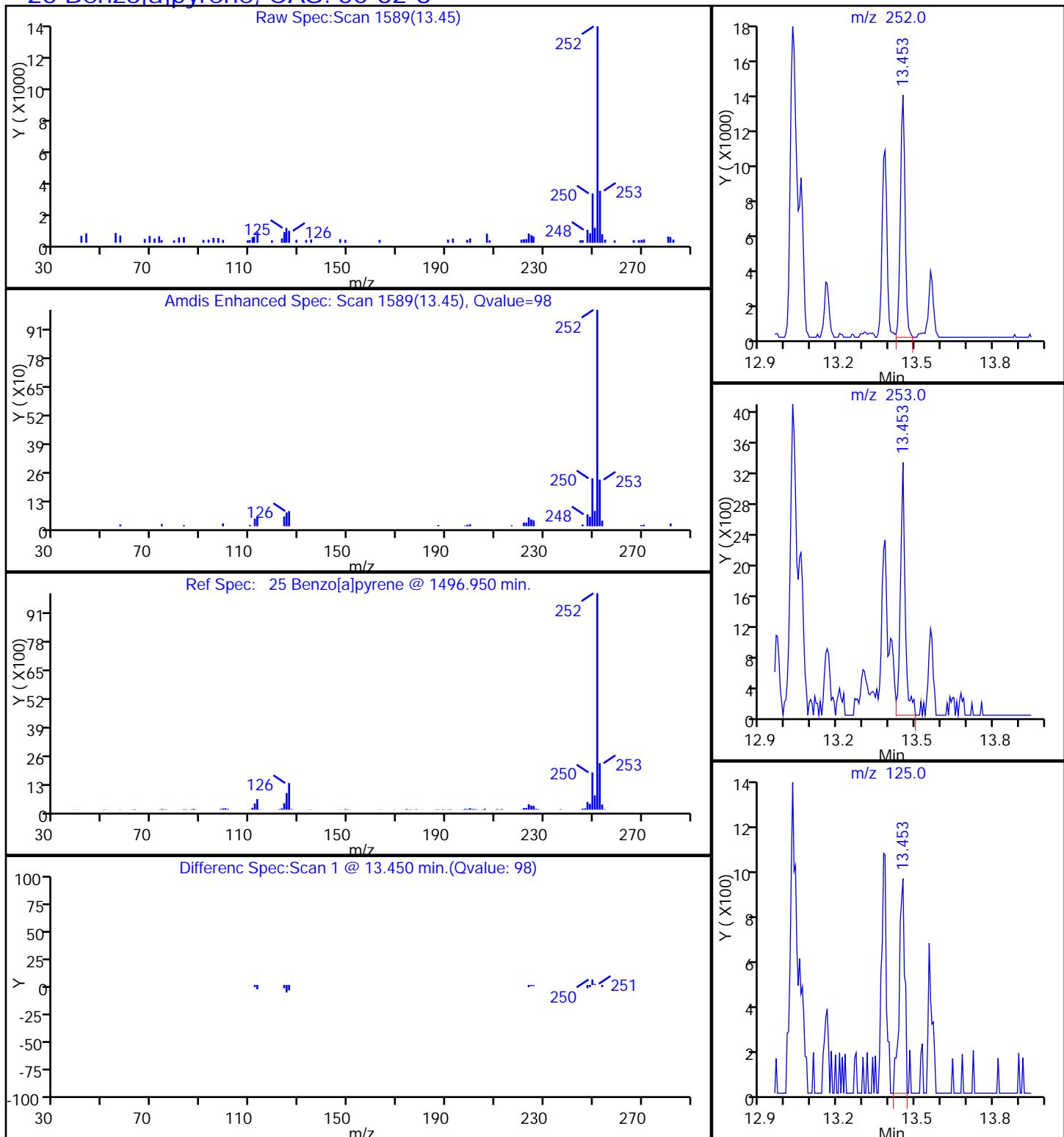
TestAmerica Savannah  
 Data File: \\ChromNA\\Savannah\\ChromData\CMSY\\20150818-22358.b\\1YF18022.D  
 Injection Date: 18-Aug-2015 21:38:30 Instrument ID: CMSY  
 Lims ID: 680-115692-A-14-A Lab Sample ID: 680-115692-14  
 Client ID: CV0511HHH-CS-6  
 Operator ID: LIMS import ALS Bottle#: 22 Worklist Smp#: 22  
 Injection Vol: 2.0 ul Dil. Factor: 10.0000  
 Method: 8270D\_LLPAH\_MSY Limit Group: 8270D\_LL\_PAH  
 Column: Restek RXi-5Sil MS ( 0.25 mm) Detector MS SCAN

### 21 Benzo[a]anthracene, CAS: 56-55-3



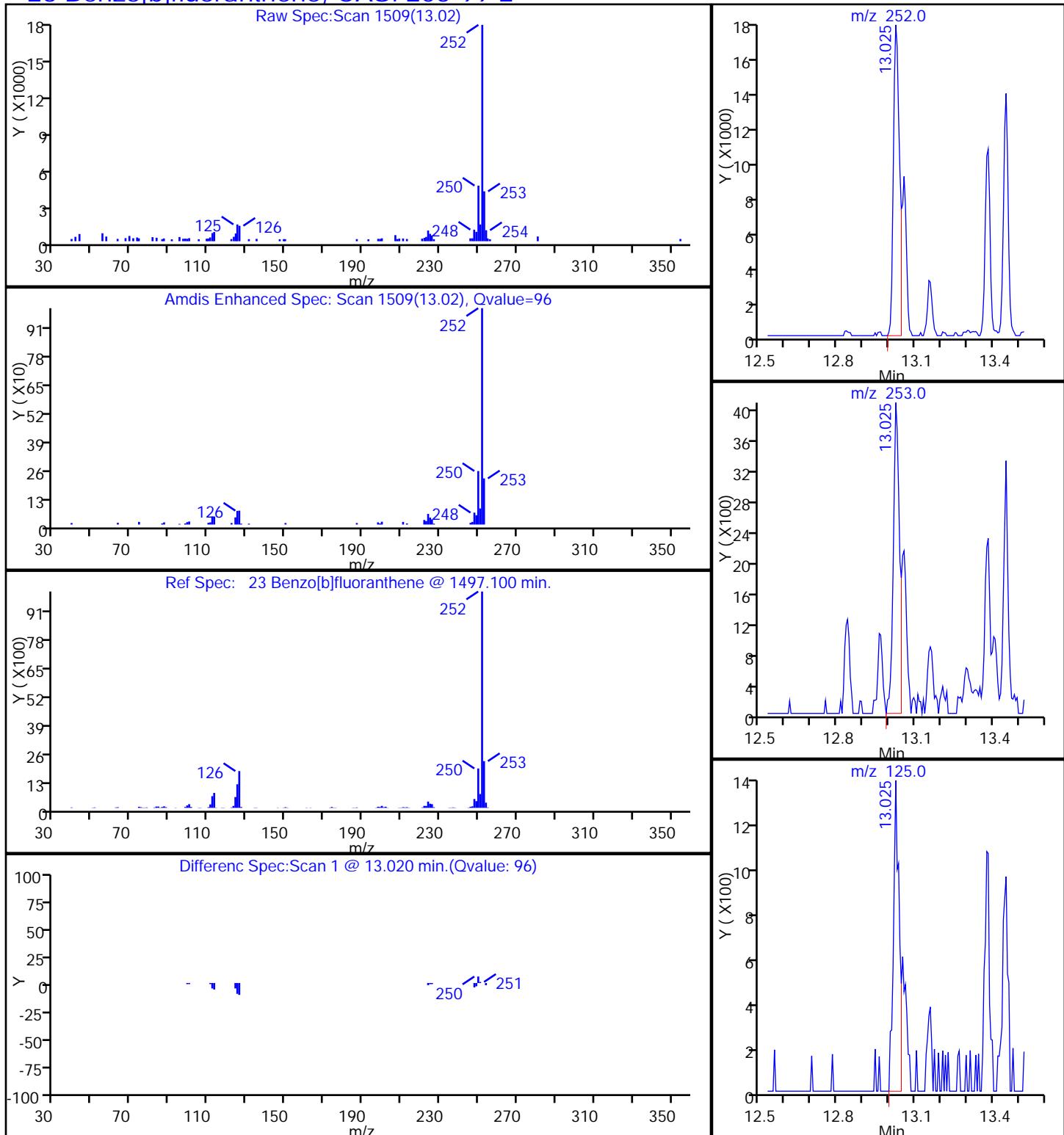
TestAmerica Savannah  
 Data File: \\ChromNA\\Savannah\\ChromData\CMSY\\20150818-22358.b\\1YF18022.D  
 Injection Date: 18-Aug-2015 21:38:30 Instrument ID: CMSY  
 Lims ID: 680-115692-A-14-A Lab Sample ID: 680-115692-14  
 Client ID: CV0511HHH-CS-6  
 Operator ID: LIMS import ALS Bottle#: 22 Worklist Smp#: 22  
 Injection Vol: 2.0 ul Dil. Factor: 10.0000  
 Method: 8270D\_LLPAH\_MSY Limit Group: 8270D\_LL\_PAH  
 Column: Restek RXi-5Sil MS ( 0.25 mm) Detector: MS SCAN

### 25 Benzo[a]pyrene, CAS: 50-32-8



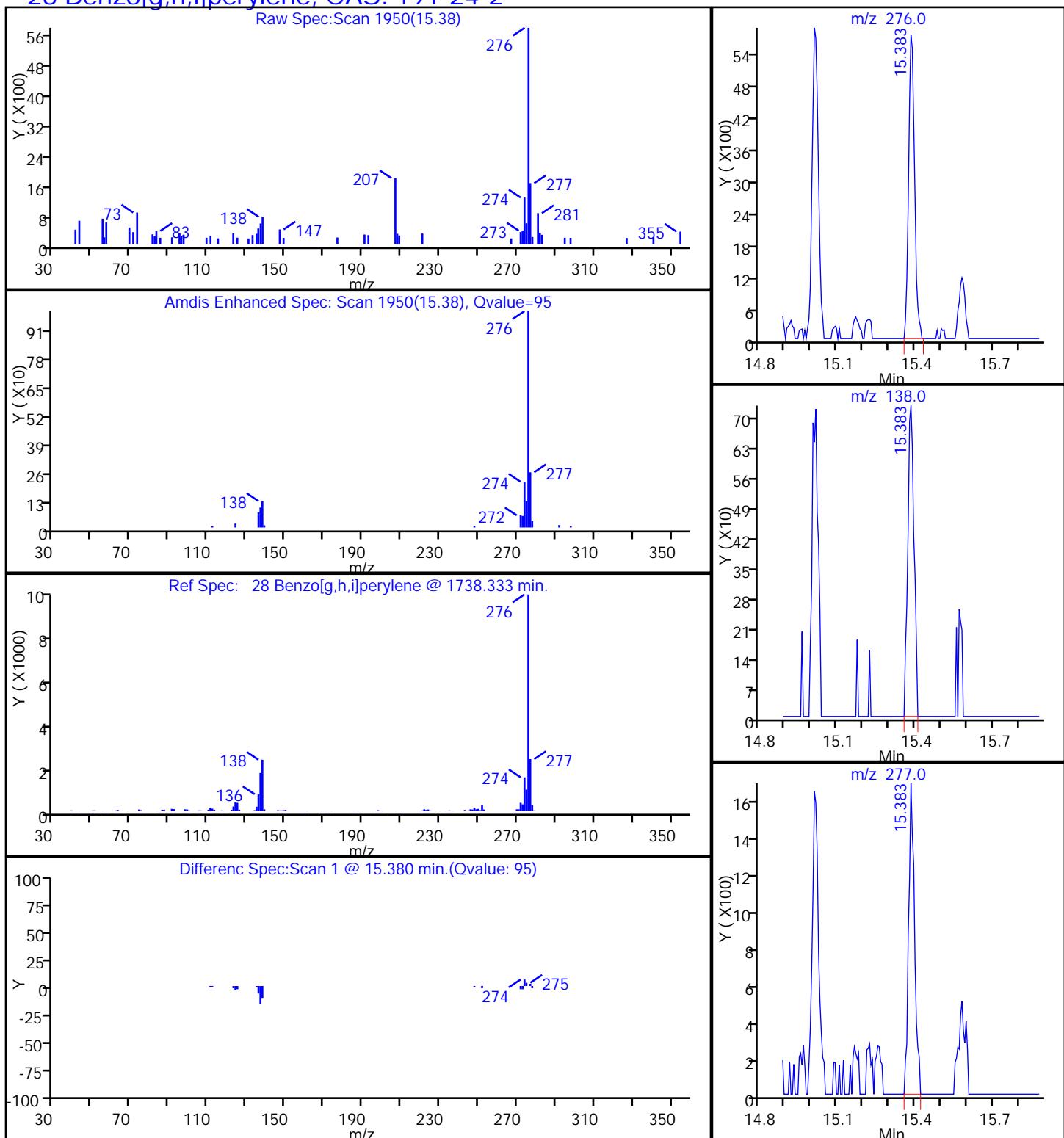
TestAmerica Savannah  
 Data File: \\ChromNA\\Savannah\\ChromData\\CMSY\\20150818-22358.b\\1YF18022.D  
 Injection Date: 18-Aug-2015 21:38:30 Instrument ID: CMSY  
 Lims ID: 680-115692-A-14-A Lab Sample ID: 680-115692-14  
 Client ID: CV0511HHH-CS-6  
 Operator ID: LIMS import ALS Bottle#: 22 Worklist Smp#: 22  
 Injection Vol: 2.0 ul Dil. Factor: 10.0000  
 Method: 8270D\_LLPAH\_MSY Limit Group: 8270D\_LL\_PAH  
 Column: Restek RXi-5Sil MS ( 0.25 mm) Detector MS SCAN

### 23 Benzo[b]fluoranthene, CAS: 205-99-2

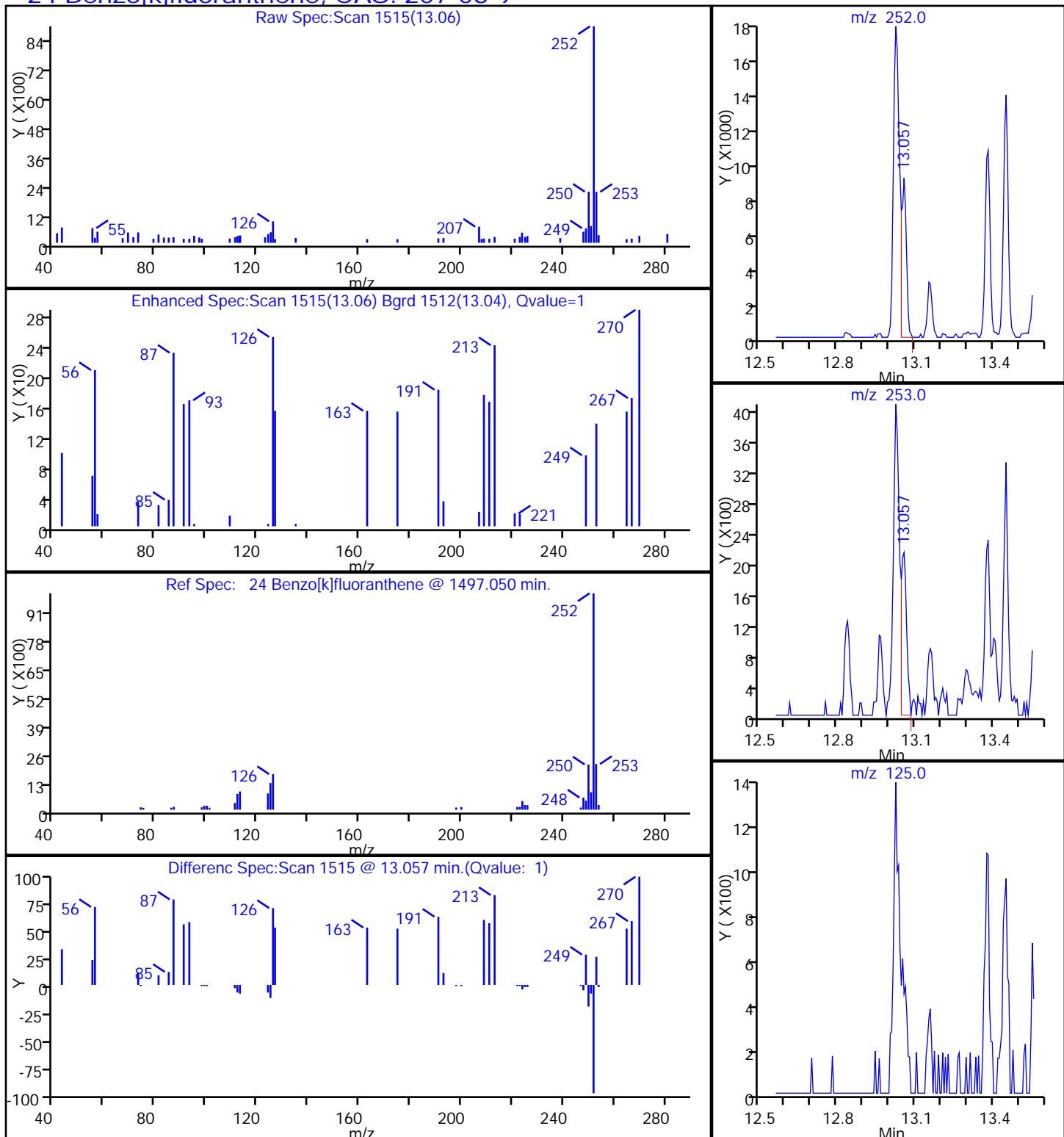


TestAmerica Savannah  
 Data File: \\ChromNA\\Savannah\\ChromData\CMSY\\20150818-22358.b\\1YF18022.D  
 Injection Date: 18-Aug-2015 21:38:30 Instrument ID: CMSY  
 Lims ID: 680-115692-A-14-A Lab Sample ID: 680-115692-14  
 Client ID: CV0511HHH-CS-6  
 Operator ID: LIMS import ALS Bottle#: 22 Worklist Smp#: 22  
 Injection Vol: 2.0 ul Dil. Factor: 10.0000  
 Method: 8270D\_LLPAH\_MSY Limit Group: 8270D\_LL\_PAH  
 Column: Restek RXi-5Sil MS ( 0.25 mm) Detector MS SCAN

### 28 Benzo[g,h,i]perylene, CAS: 191-24-2

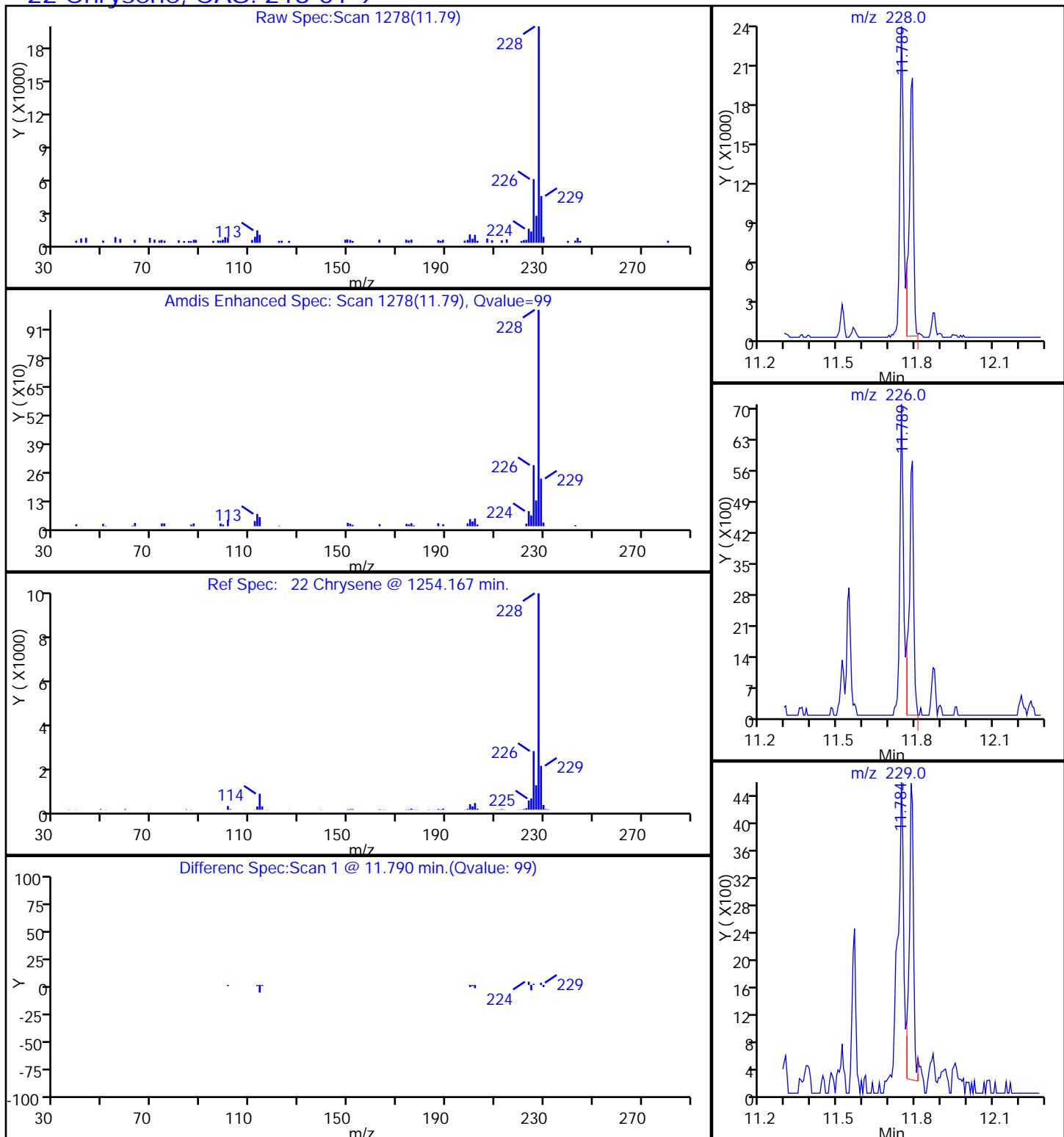


TestAmerica Savannah  
 Data File: \\ChromNA\\Savannah\\ChromData\CMSY\\20150818-22358.b\\1YF18022.D  
 Injection Date: 18-Aug-2015 21:38:30 Instrument ID: CMSY  
 Lims ID: 680-115692-A-14-A Lab Sample ID: 680-115692-14  
 Client ID: CV0511HHH-CS-6  
 Operator ID: LIMS import ALS Bottle#: 22 Worklist Smp#: 22  
 Injection Vol: 2.0 ul Dil. Factor: 10.0000  
 Method: 8270D\_LLPAH\_MSY Limit Group: 8270D\_LL\_PAH  
 Column: Restek RXi-5Sil MS ( 0.25 mm) Detector MS SCAN

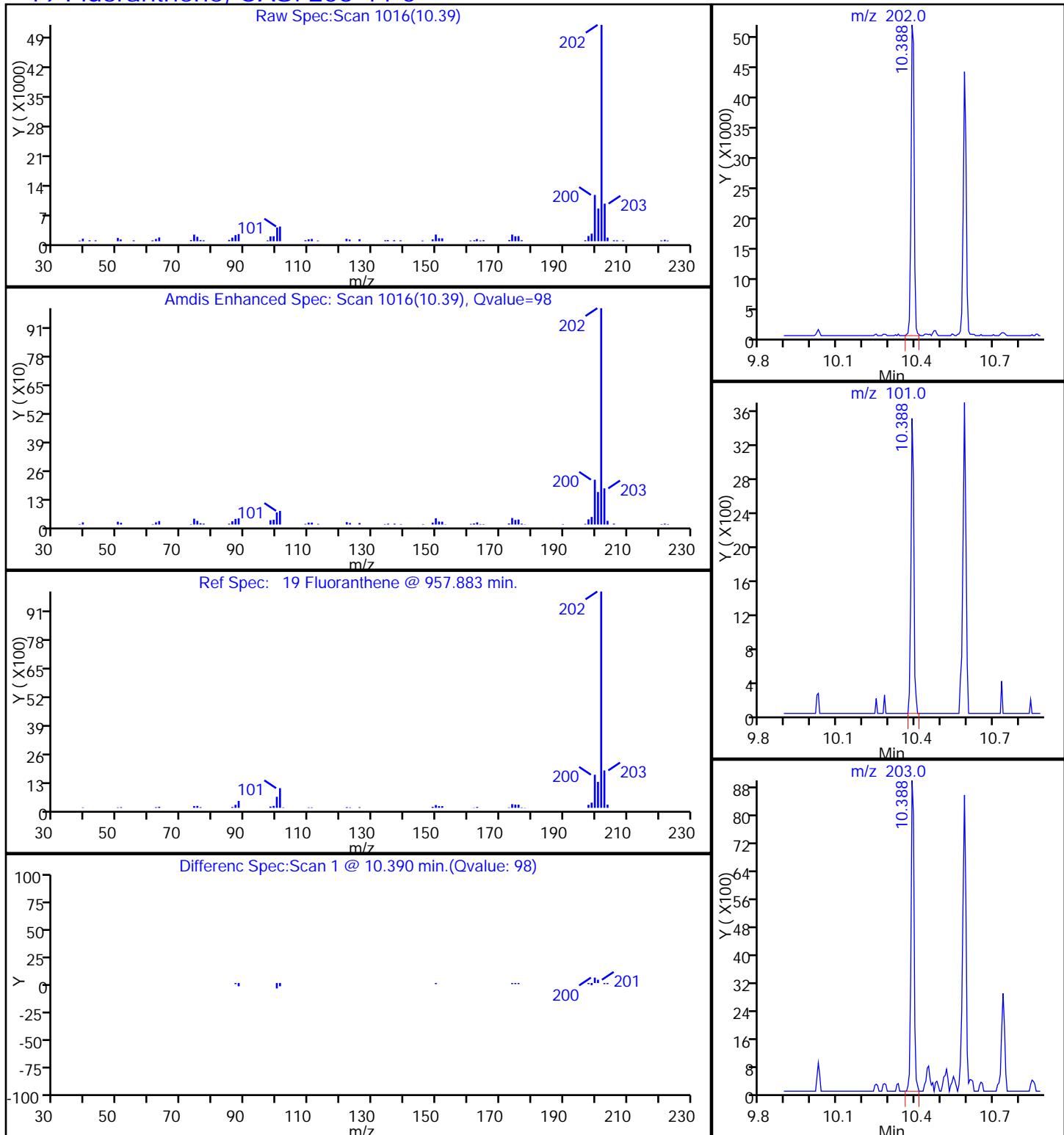
**24 Benzo[k]fluoranthene, CAS: 207-08-9**

TestAmerica Savannah  
 Data File: \\ChromNA\\Savannah\\ChromData\CMSY\\20150818-22358.b\\1YF18022.D  
 Injection Date: 18-Aug-2015 21:38:30 Instrument ID: CMSY  
 Lims ID: 680-115692-A-14-A Lab Sample ID: 680-115692-14  
 Client ID: CV0511HHH-CS-6  
 Operator ID: LIMS import ALS Bottle#: 22 Worklist Smp#: 22  
 Injection Vol: 2.0 ul Dil. Factor: 10.0000  
 Method: 8270D\_LLPAH\_MSY Limit Group: 8270D\_LL\_PAH  
 Column: Restek RXi-5Sil MS ( 0.25 mm) Detector MS SCAN

## 22 Chrysene, CAS: 218-01-9

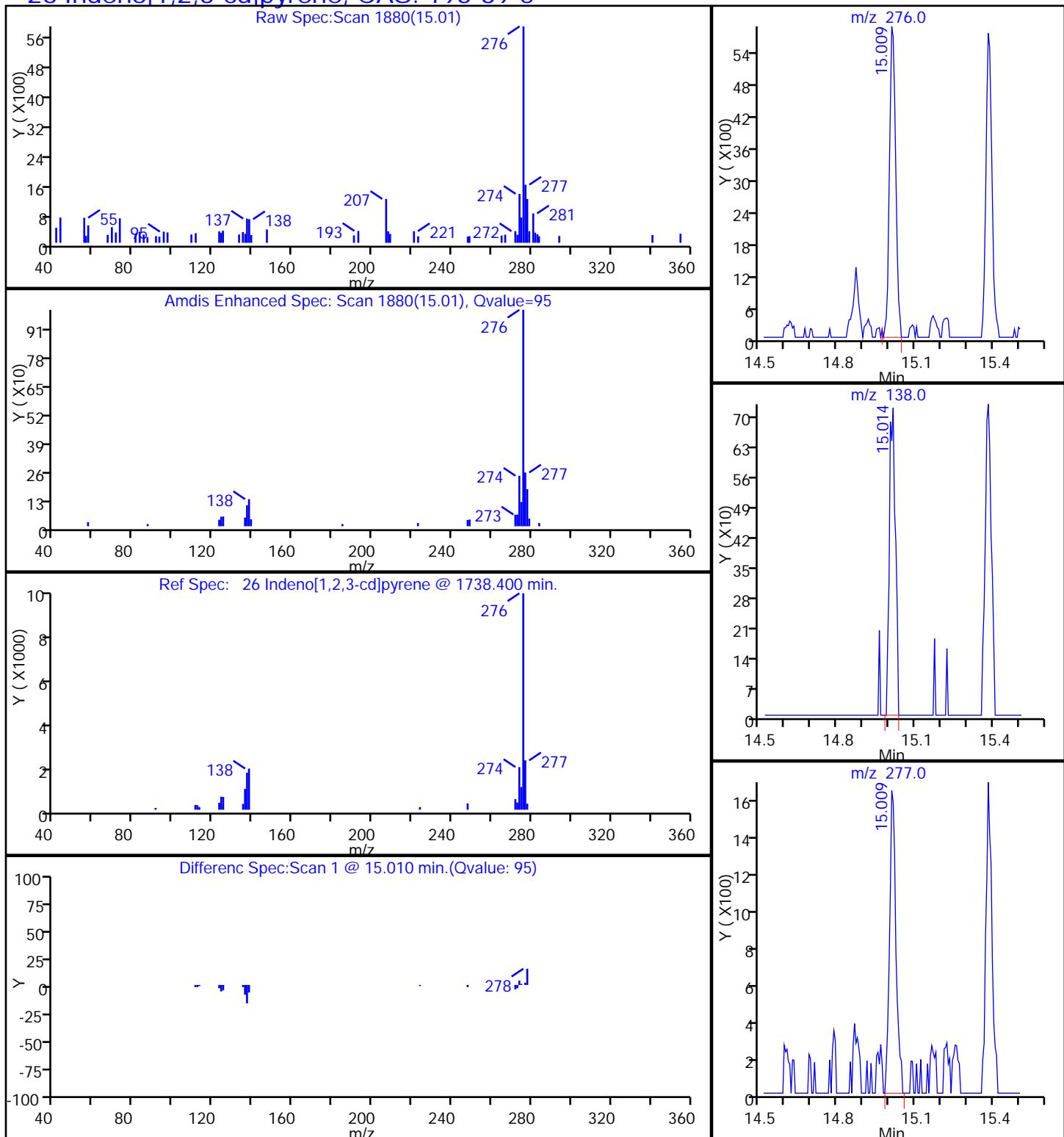


TestAmerica Savannah  
 Data File: \\ChromNA\\Savannah\\ChromData\\CMSY\\20150818-22358.b\\1YF18022.D  
 Injection Date: 18-Aug-2015 21:38:30 Instrument ID: CMSY  
 Lims ID: 680-115692-A-14-A Lab Sample ID: 680-115692-14  
 Client ID: CV0511HHH-CS-6  
 Operator ID: LIMS import ALS Bottle#: 22 Worklist Smp#: 22  
 Injection Vol: 2.0 ul Dil. Factor: 10.0000  
 Method: 8270D\_LLPAH\_MSY Limit Group: 8270D\_LL\_PAH  
 Column: Restek RXi-5Sil MS ( 0.25 mm) Detector MS SCAN

**19 Fluoranthene, CAS: 206-44-0**

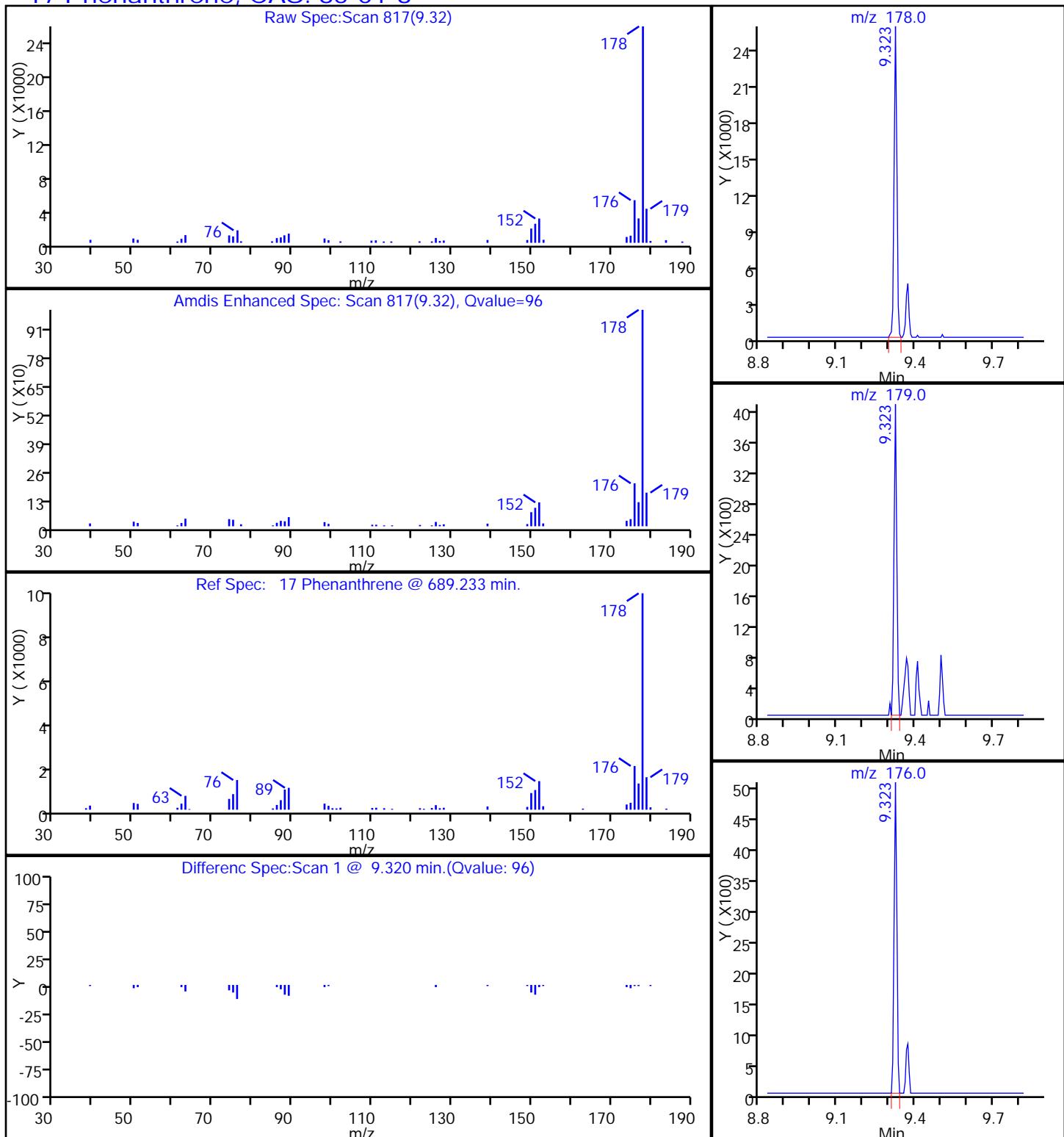
TestAmerica Savannah  
 Data File: \\ChromNA\\Savannah\\ChromData\\CMSY\\20150818-22358.b\\1YF18022.D  
 Injection Date: 18-Aug-2015 21:38:30 Instrument ID: CMSY  
 Lims ID: 680-115692-A-14-A Lab Sample ID: 680-115692-14  
 Client ID: CV0511HHH-CS-6  
 Operator ID: LIMS import ALS Bottle#: 22 Worklist Smp#: 22  
 Injection Vol: 2.0 ul Dil. Factor: 10.0000  
 Method: 8270D\_LLPAH\_MSY Limit Group: 8270D\_LL\_PAH  
 Column: Restek RXi-5Sil MS ( 0.25 mm) Detector MS SCAN

### 26 Indeno[1,2,3-cd]pyrene, CAS: 193-39-5



TestAmerica Savannah  
 Data File: \\ChromNA\\Savannah\\ChromData\CMSY\\20150818-22358.b\\1YF18022.D  
 Injection Date: 18-Aug-2015 21:38:30 Instrument ID: CMSY  
 Lims ID: 680-115692-A-14-A Lab Sample ID: 680-115692-14  
 Client ID: CV0511HHH-CS-6  
 Operator ID: LIMS import ALS Bottle#: 22 Worklist Smp#: 22  
 Injection Vol: 2.0 ul Dil. Factor: 10.0000  
 Method: 8270D\_LLPAH\_MSY Limit Group: 8270D\_LL\_PAH  
 Column: Restek RXi-5Sil MS ( 0.25 mm) Detector: MS SCAN

### 17 Phenanthrene, CAS: 85-01-8



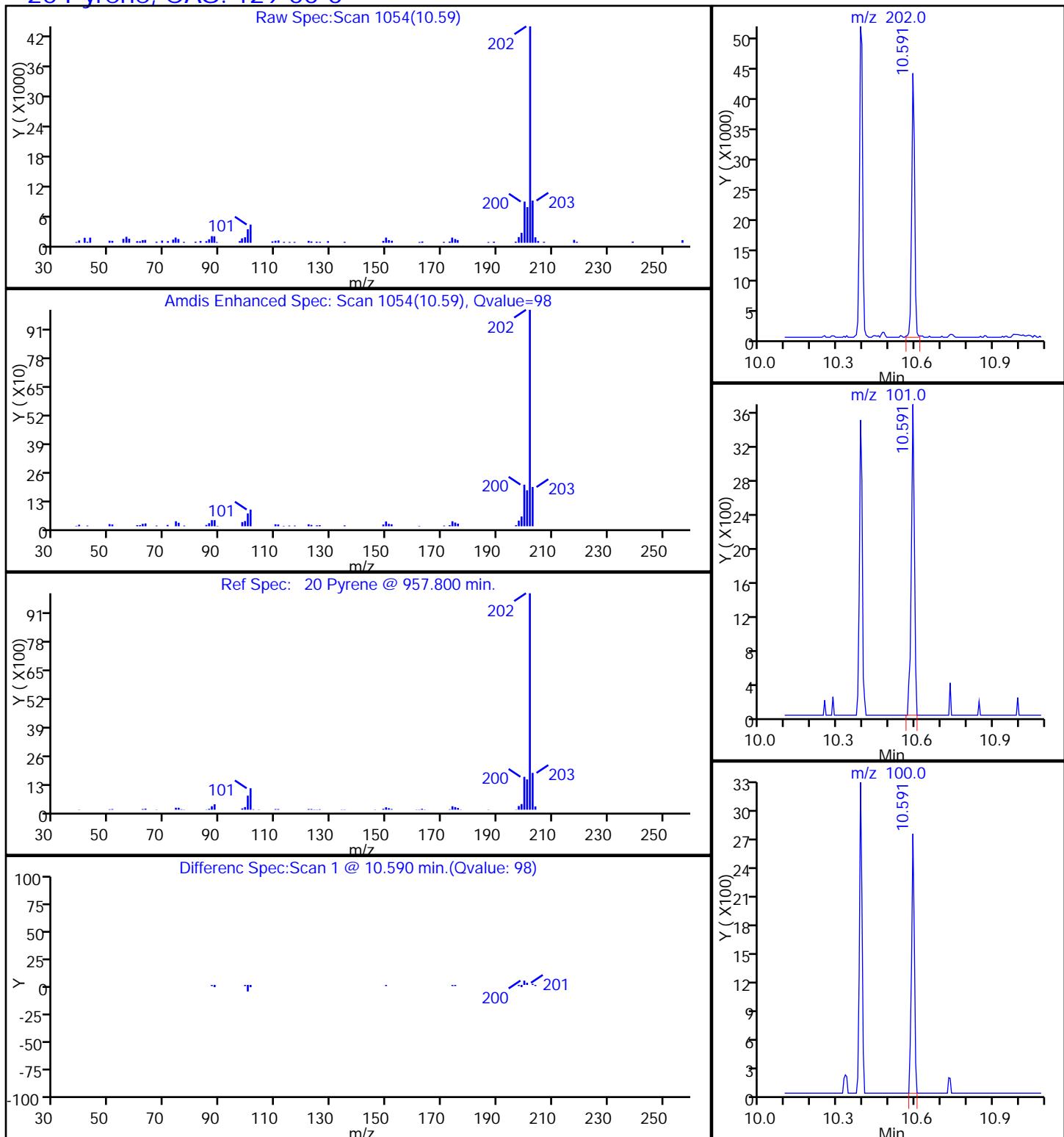
Report Date: 19-Aug-2015 11:22:56

Chrom Revision: 2.2 23-Jul-2015 08:26:08

## TestAmerica Savannah

Data File: \\ChromNA\\Savannah\\ChromData\CMSY\\20150818-22358.b\\1YF18022.D  
 Injection Date: 18-Aug-2015 21:38:30 Instrument ID: CMSY  
 Lims ID: 680-115692-A-14-A Lab Sample ID: 680-115692-14  
 Client ID: CV0511HHH-CS-6  
 Operator ID: LIMS import ALS Bottle#: 22 Worklist Smp#: 22  
 Injection Vol: 2.0 ul Dil. Factor: 10.0000  
 Method: 8270D\_LLPAH\_MSY Limit Group: 8270D\_LL\_PAH  
 Column: Restek RXi-5Sil MS ( 0.25 mm) Detector MS SCAN

## 20 Pyrene, CAS: 129-00-0



FORM I  
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Savannah	Job No.: 680-115692-1
SDG No.: 680-115692-01	
Client Sample ID: CV0511HHH-CSD-12	Lab Sample ID: 680-115692-15
Matrix: Solid	Lab File ID: 1YF18023.D
Analysis Method: 8270D_LL_PAH	Date Collected: 08/11/2015 08:45
Extract. Method: 3546	Date Extracted: 08/17/2015 10:44
Sample wt/vol: 30.06(g)	Date Analyzed: 08/18/2015 22:06
Con. Extract Vol.: 1(mL)	Dilution Factor: 10
Injection Volume: 2(uL)	Level: (low/med) Low
% Moisture: 14.4	GPC Cleanup: (Y/N) N
Analysis Batch No.: 396712	Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	78	U	78	38
208-96-8	Acenaphthylene	78	U	78	38
120-12-7	Anthracene	78	U	78	38
56-55-3	Benzo[a]anthracene	100		78	38
50-32-8	Benzo[a]pyrene	95		78	14
205-99-2	Benzo[b]fluoranthene	150		78	38
191-24-2	Benzo[g,h,i]perylene	48	J	78	38
207-08-9	Benzo[k]fluoranthene	64	J	78	23
218-01-9	Chrysene	98		78	38
53-70-3	Dibenz(a,h)anthracene	78	U	78	38
206-44-0	Fluoranthene	190		78	38
86-73-7	Fluorene	78	U	78	38
193-39-5	Indeno[1,2,3-cd]pyrene	78	U	78	38
90-12-0	1-Methylnaphthalene	78	U	78	36
91-57-6	2-Methylnaphthalene	78	U	78	38
91-20-3	Naphthalene	78	U	78	38
85-01-8	Phenanthrene	93		78	28
129-00-0	Pyrene	140		78	38

CAS NO.	SURROGATE	%REC	Q	LIMITS
84-15-1	o-Terphenyl	0	D	36-131

TestAmerica Savannah  
Target Compound Quantitation Report

Data File: \\ChromNA\Savannah\ChromData\CMSY\20150818-22358.b\1YF18023.D  
 Lims ID: 680-115692-A-15-A Lab Sample ID: 680-115692-15  
 Client ID: CV0511HHH-CSD-12  
 Sample Type: Client  
 Inject. Date: 18-Aug-2015 22:06:30 ALS Bottle#: 23 Worklist Smp#: 23  
 Injection Vol: 2.0 ul Dil. Factor: 10.0000  
 Sample Info: 680-115692-A-15-A  
 Misc. Info.: 680-0022358-023  
 Operator ID: LIMS import Instrument ID: CMSY  
 Method: \\ChromNA\Savannah\ChromData\CMSY\20150818-22358.b\8270D\_LLPAH\_MSY.m  
 Limit Group: 8270D\_LL\_PAH  
 Last Update: 19-Aug-2015 11:22:28 Calib Date: 12-Aug-2015 16:37:30  
 Integrator: RTE ID Type: Deconvolution ID  
 Quant Method: Internal Standard Quant By: Initial Calibration  
 Last ICAL File: \\ChromNA\Savannah\ChromData\CMSY\20150812-22174.b\1YF12008.D  
 Column 1 : Restek RXi-5Sil MS ( 0.25 mm) Det: MS SCAN  
 Process Host: XAWRK003

First Level Reviewer: millsj Date: 19-Aug-2015 11:17:51

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/ml	Flags
* 1 Naphthalene-d8	136	6.366	6.366	0.000	99	45970	2.00	
* 2 Acenaphthene-d10	164	7.970	7.975	-0.005	96	26041	2.00	
* 3 Phenanthrene-d10	188	9.302	9.307	-0.005	97	57110	2.00	
* 4 Chrysene-d12	240	11.757	11.773	-0.016	98	80808	2.00	
* 5 Perylene-d12	264	13.522	13.538	-0.016	99	64133	2.00	
17 Phenanthrene	178	9.323	9.329	-0.006	96	6537	0.2395	
18 Anthracene	178	9.371	9.371	0.000	17	1146	0.0489	
19 Fluoranthene	202	10.388	10.398	-0.010	98	15973	0.4871	
20 Pyrene	202	10.591	10.602	-0.011	98	13115	0.3714	
21 Benzo[a]anthracene	228	11.746	11.762	-0.016	96	10314	0.2652	
22 Chrysene	228	11.784	11.805	-0.021	99	9391	0.2526	
23 Benzo[b]fluoranthene	252	13.025	13.041	-0.016	96	12045	0.3842	
24 Benzo[k]fluoranthene	252	13.057	13.078	-0.021	1	5071	0.1658	
25 Benzo[a]pyrene	252	13.453	13.469	-0.017	97	7102	0.2437	
26 Indeno[1,2,3-cd]pyrene	276	15.014	15.025	-0.011	45	4222	0.0711	7
28 Benzo[g,h,i]perylene	276	15.383	15.399	-0.016	95	4201	0.1239	

### QC Flag Legend

Processing Flags

7 - Failed Limit of Detection

### Reagents:

SM-LLISTD\_00128

Amount Added: 10.00

Units: uL

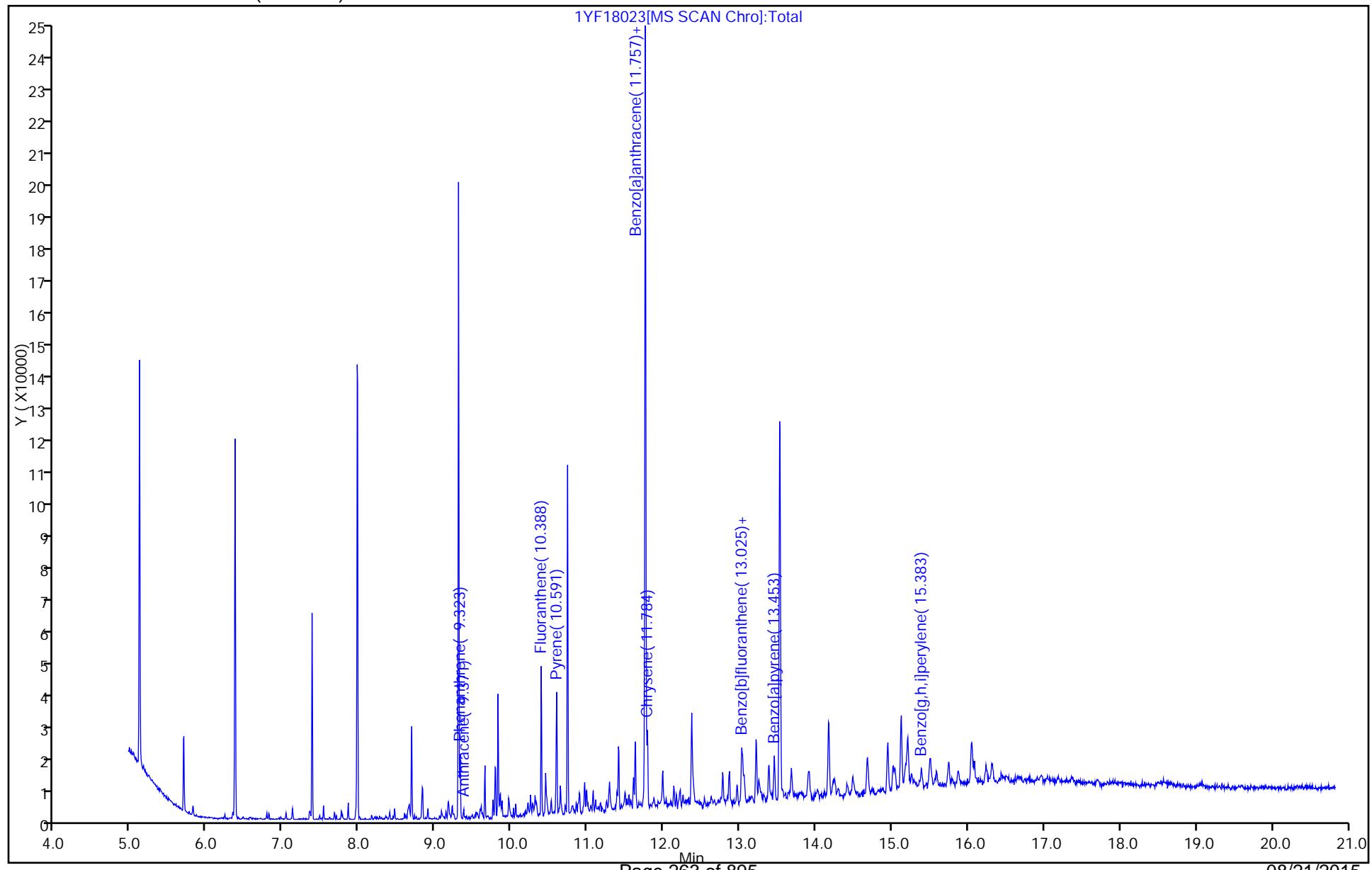
Run Reagent

Report Date: 19-Aug-2015 11:22:57

Chrom Revision: 2.2 23-Jul-2015 08:26:08

## TestAmerica Savannah

Data File:	\ChromNA\Savannah\ChromData\CMSY\20150818-22358.b\1YF18023.D	Instrument ID:	CMSY	Operator ID:	LIMS import
Injection Date:	18-Aug-2015 22:06:30	Lab Sample ID:	680-115692-15	Worklist Smp#:	23
Lims ID:	680-115692-A-15-A				
Client ID:	CV0511HHH-CSD-12				
Injection Vol:	2.0 ul	Dil. Factor:	10.0000	ALS Bottle#:	23
Method:	8270D_LLPAH_MSY	Limit Group:	8270D_LL_PAH		
Column:	Restek RXi-5Sil MS ( 0.25 mm)				



TestAmerica Savannah

Data File: \\ChromNA\\Savannah\\ChromData\CMSY\\20150818-22358.b\\1YF18023.D

Injection Date: 18-Aug-2015 22:06:30

Instrument ID: CMSY

Lims ID: 680-115692-A-15-A

Lab Sample ID: 680-115692-15

Client ID: CV0511HHH-CSD-12

Operator ID: LIMS import

ALS Bottle#: 23 Worklist Smp#: 23

Injection Vol: 2.0 ul

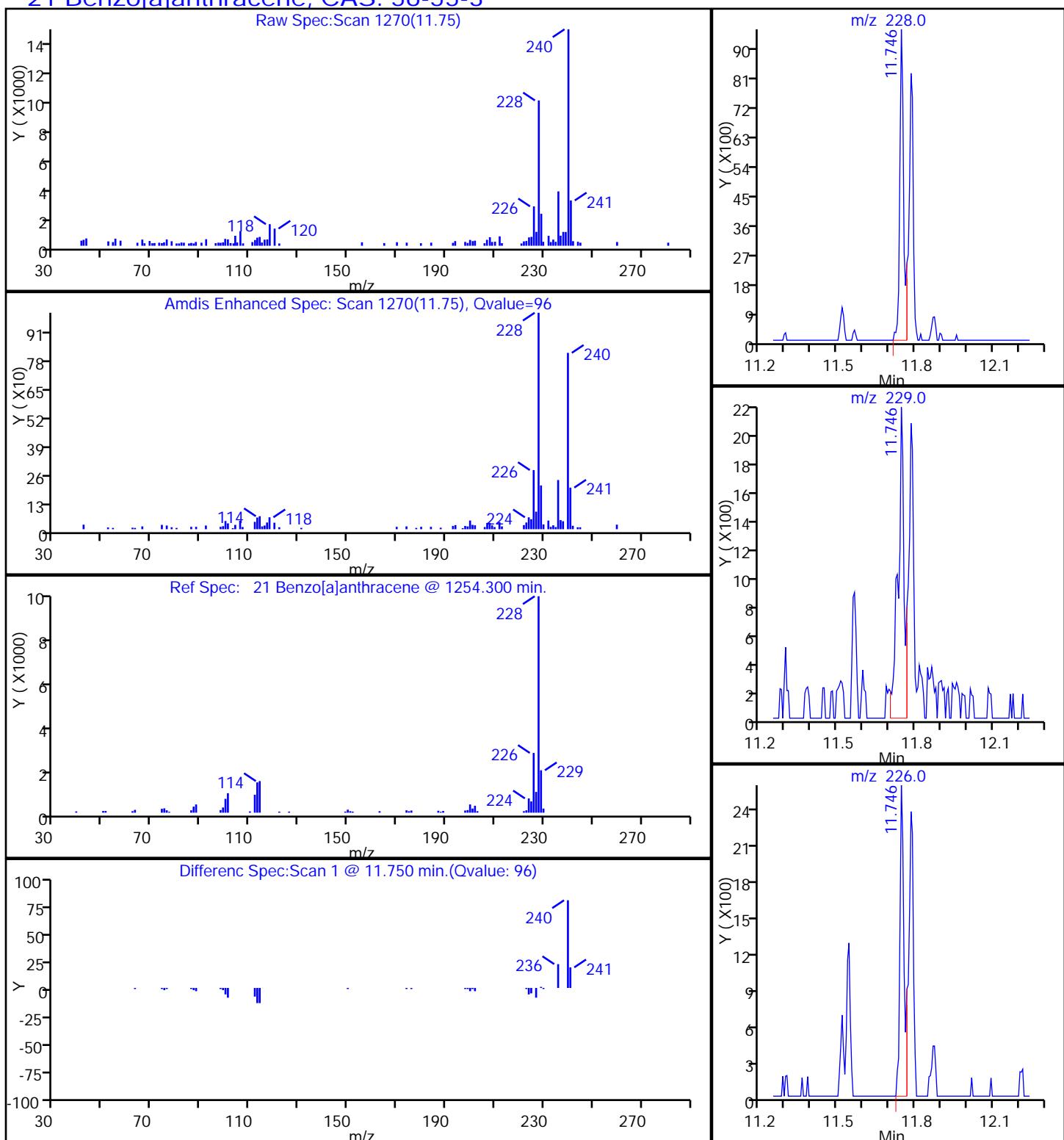
Dil. Factor: 10.0000

Method: 8270D\_LLPAH\_MSY

Limit Group: 8270D\_LL\_PAH

Column: Restek RXi-5Sil MS ( 0.25 mm)

Detector: MS SCAN

**21 Benzo[a]anthracene, CAS: 56-55-3**

TestAmerica Savannah

Data File: \\ChromNA\\Savannah\\ChromData\CMSY\\20150818-22358.b\\1YF18023.D

Injection Date: 18-Aug-2015 22:06:30

Instrument ID: CMSY

Lims ID: 680-115692-A-15-A

Lab Sample ID: 680-115692-15

Client ID: CV0511HHH-CSD-12

Operator ID: LIMS import

ALS Bottle#: 23 Worklist Smp#: 23

Injection Vol: 2.0 ul

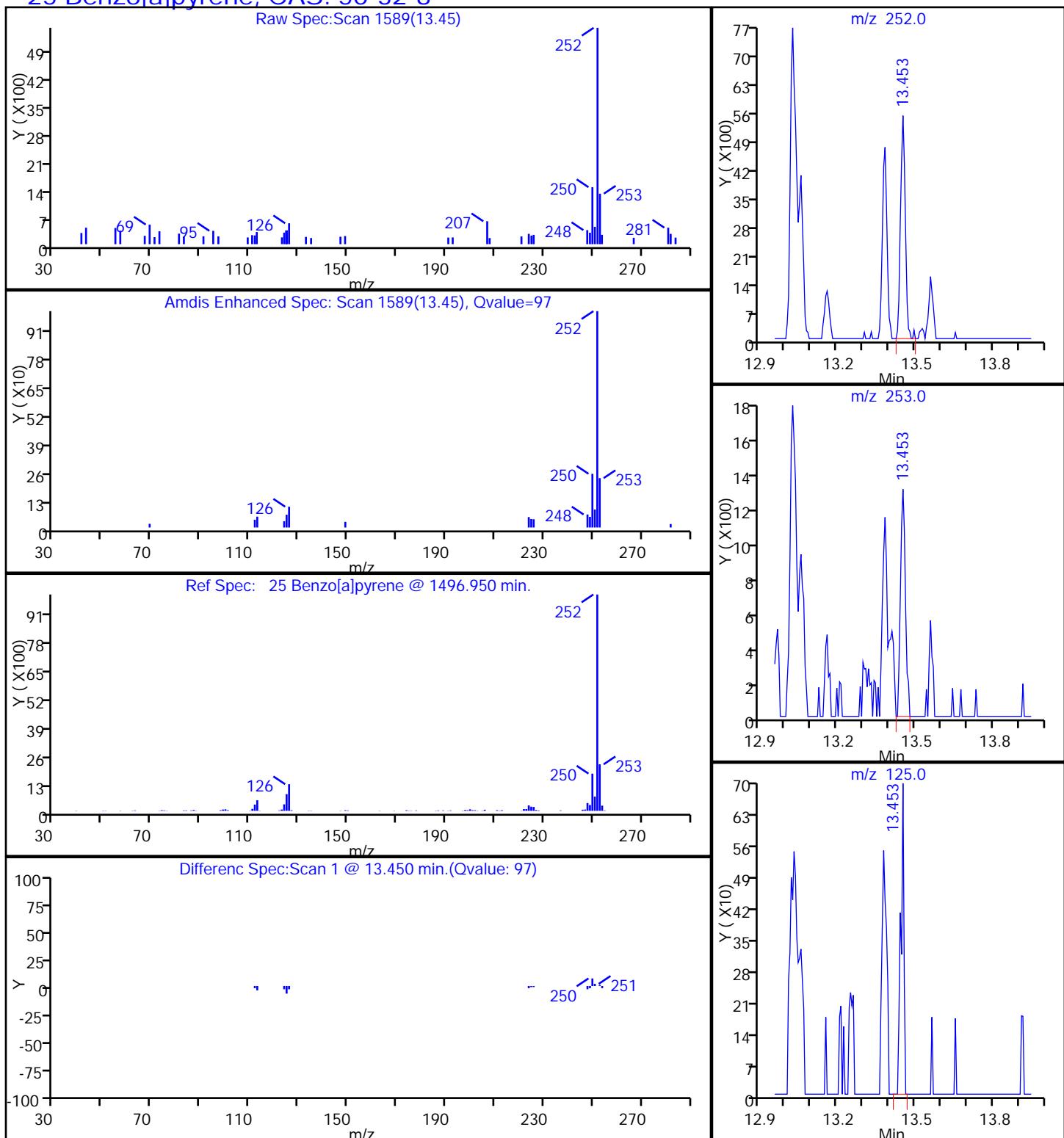
Dil. Factor: 10.0000

Method: 8270D\_LLPAH\_MSY

Limit Group: 8270D\_LL\_PAH

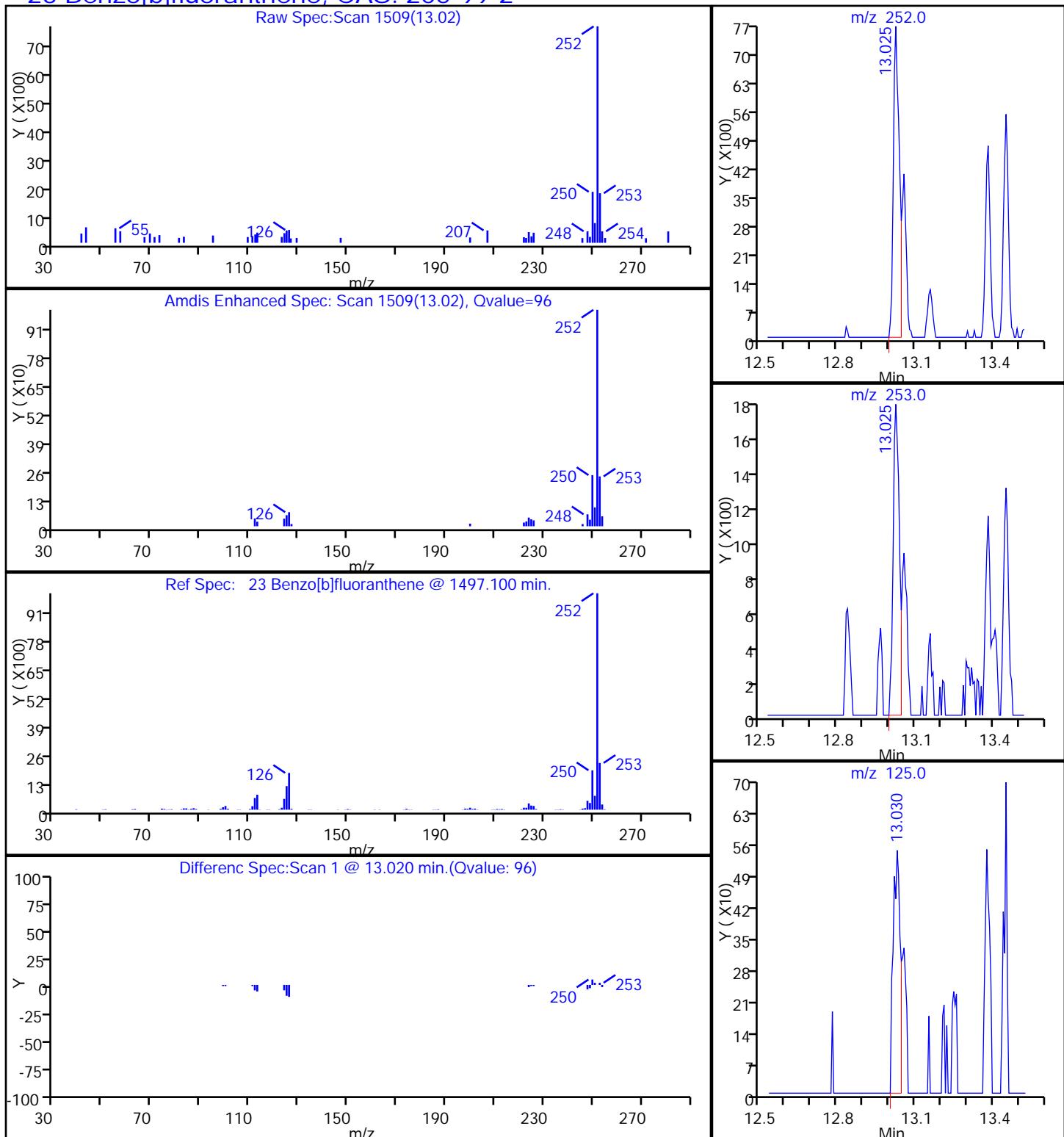
Column: Restek RXi-5Sil MS ( 0.25 mm)

Detector: MS SCAN

**25 Benzo[a]pyrene, CAS: 50-32-8**

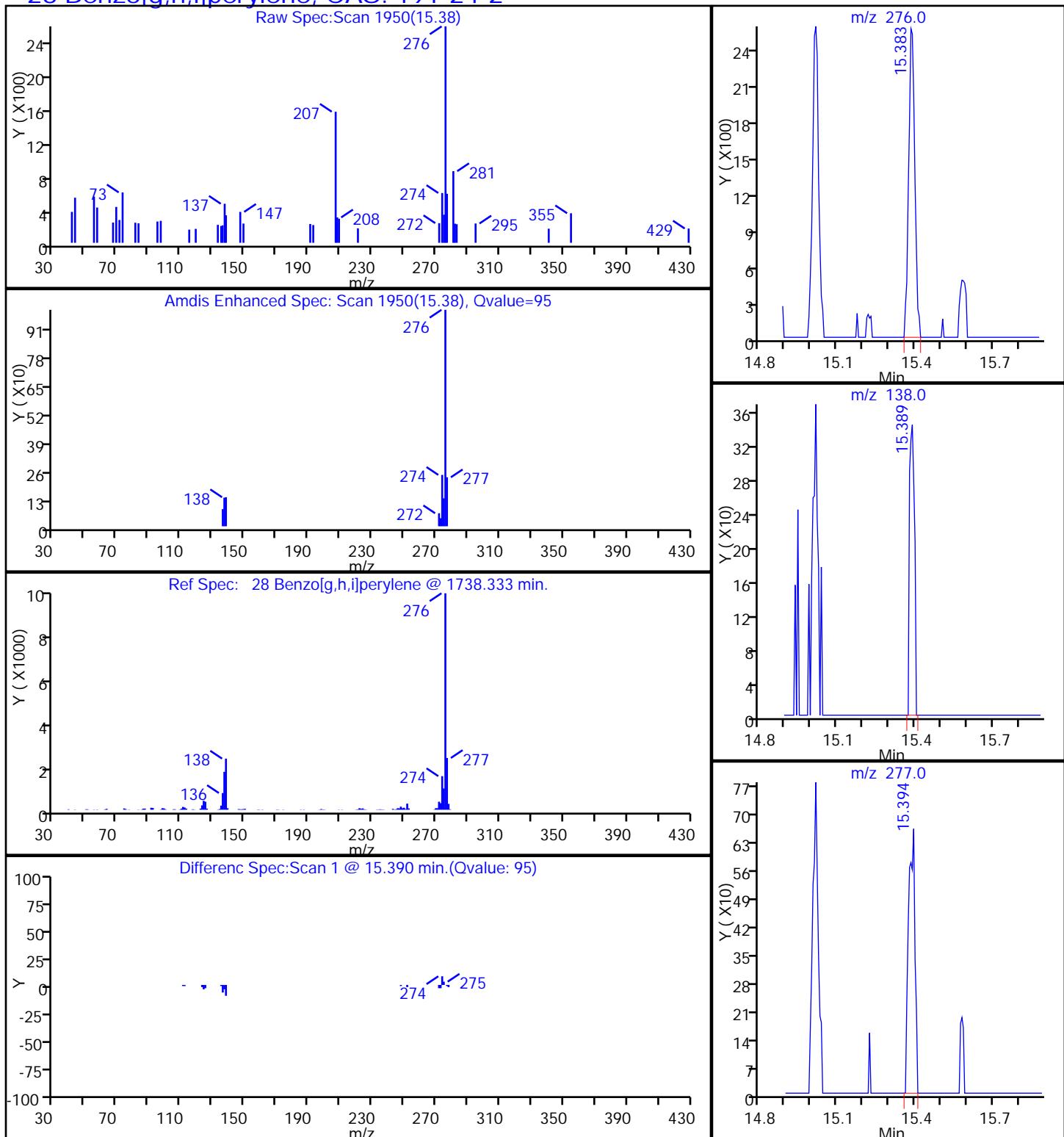
TestAmerica Savannah  
 Data File: \\ChromNA\\Savannah\\ChromData\CMSY\\20150818-22358.b\\1YF18023.D  
 Injection Date: 18-Aug-2015 22:06:30 Instrument ID: CMSY  
 Lims ID: 680-115692-A-15-A Lab Sample ID: 680-115692-15  
 Client ID: CV0511HHH-CSD-12  
 Operator ID: LIMS import ALS Bottle#: 23 Worklist Smp#: 23  
 Injection Vol: 2.0 ul Dil. Factor: 10.0000  
 Method: 8270D\_LLPAH\_MSY Limit Group: 8270D\_LL\_PAH  
 Column: Restek RXi-5Sil MS ( 0.25 mm) Detector MS SCAN

### 23 Benzo[b]fluoranthene, CAS: 205-99-2

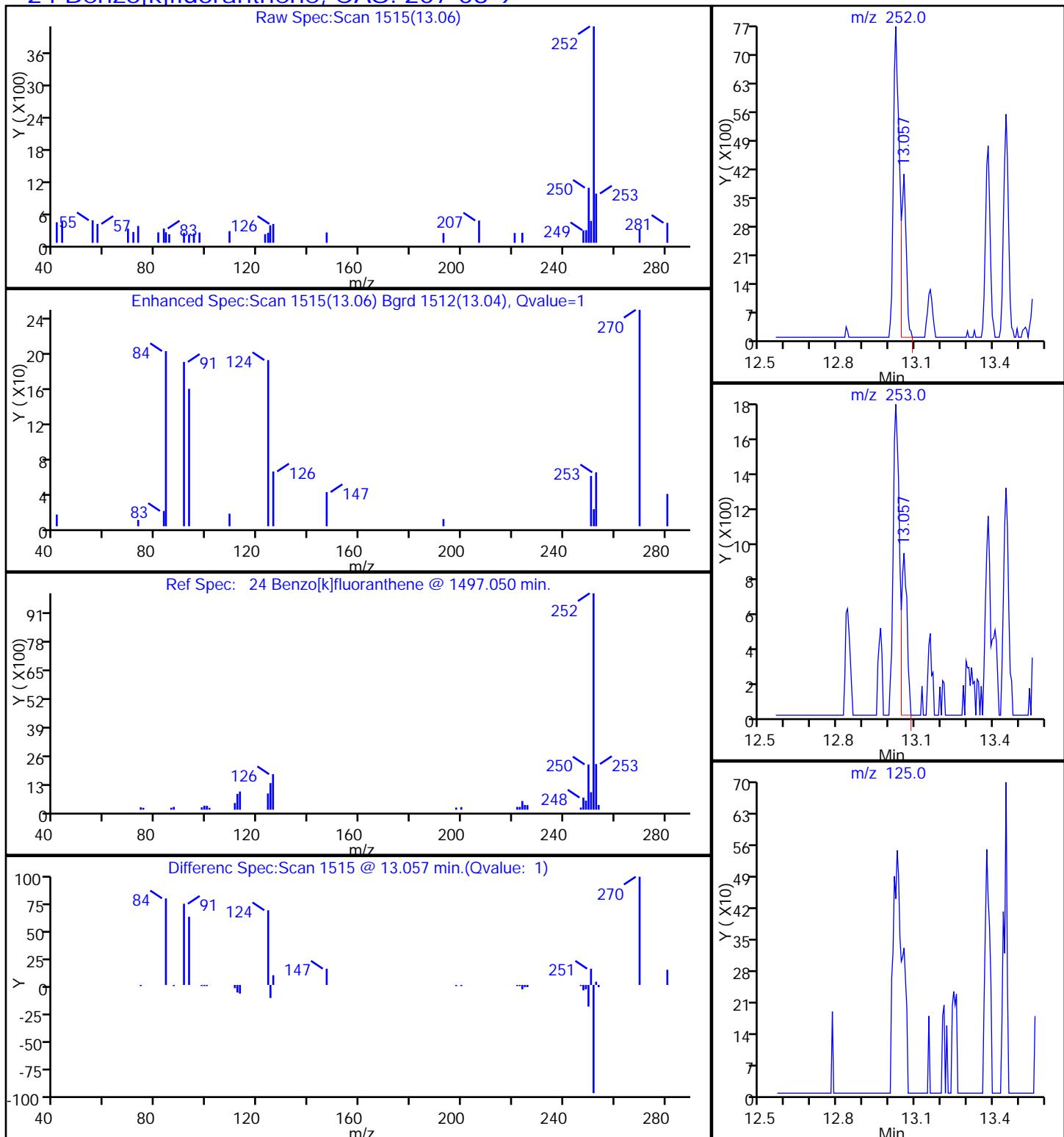


TestAmerica Savannah  
 Data File: \\ChromNA\\Savannah\\ChromData\\CMSY\\20150818-22358.b\\1YF18023.D  
 Injection Date: 18-Aug-2015 22:06:30 Instrument ID: CMSY  
 Lims ID: 680-115692-A-15-A Lab Sample ID: 680-115692-15  
 Client ID: CV0511HHH-CSD-12  
 Operator ID: LIMS import ALS Bottle#: 23 Worklist Smp#: 23  
 Injection Vol: 2.0 ul Dil. Factor: 10.0000  
 Method: 8270D\_LLPAH\_MSY Limit Group: 8270D\_LL\_PAH  
 Column: Restek RXi-5Sil MS ( 0.25 mm) Detector: MS SCAN

### 28 Benzo[g,h,i]perylene, CAS: 191-24-2

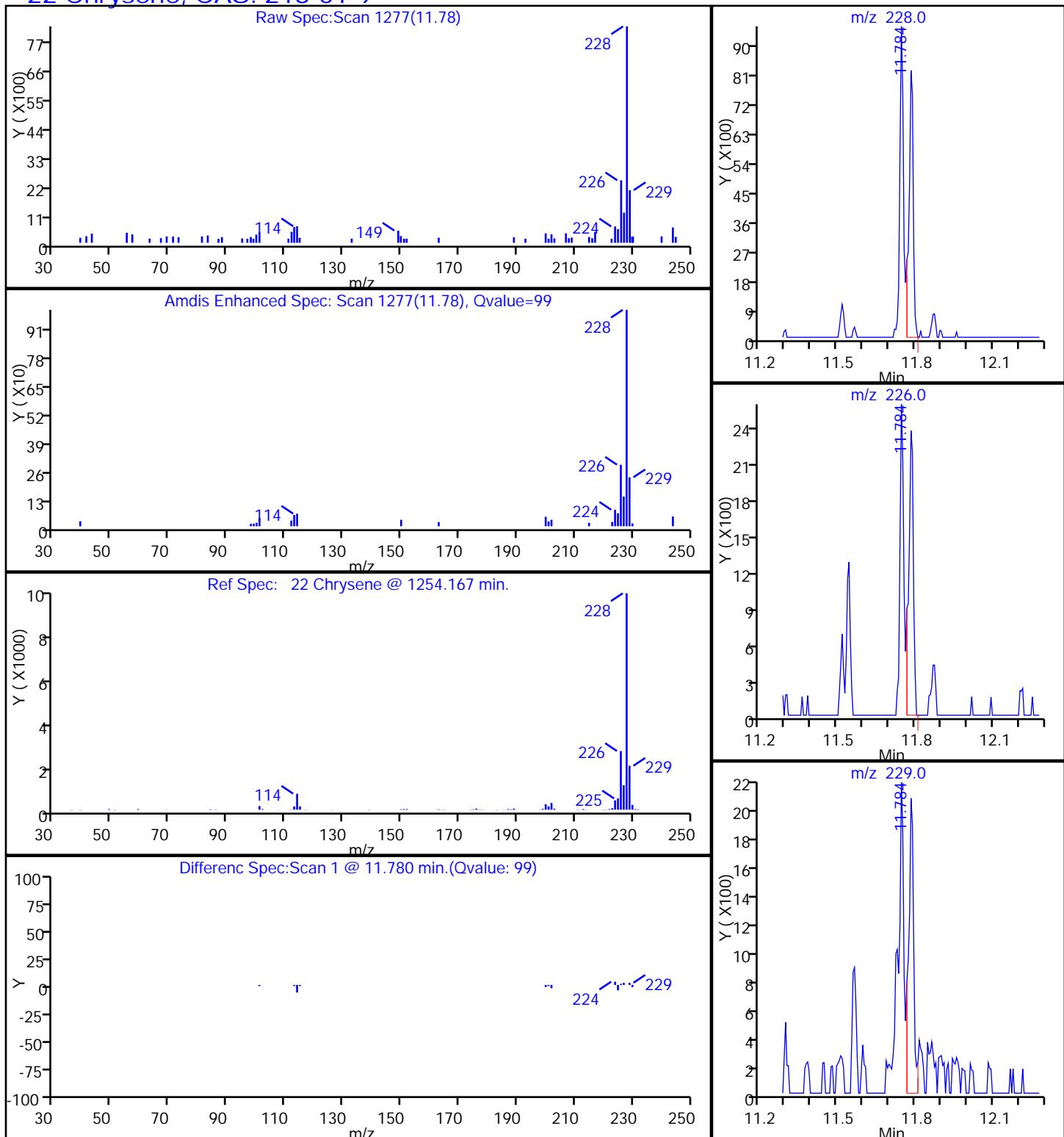


TestAmerica Savannah  
 Data File: \\ChromNA\\Savannah\\ChromData\\CMSY\\20150818-22358.b\\1YF18023.D  
 Injection Date: 18-Aug-2015 22:06:30 Instrument ID: CMSY  
 Lims ID: 680-115692-A-15-A Lab Sample ID: 680-115692-15  
 Client ID: CV0511HHH-CSD-12  
 Operator ID: LIMS import ALS Bottle#: 23 Worklist Smp#: 23  
 Injection Vol: 2.0 ul Dil. Factor: 10.0000  
 Method: 8270D\_LLPAH\_MSY Limit Group: 8270D\_LL\_PAH  
 Column: Restek RXi-5Sil MS ( 0.25 mm) Detector MS SCAN

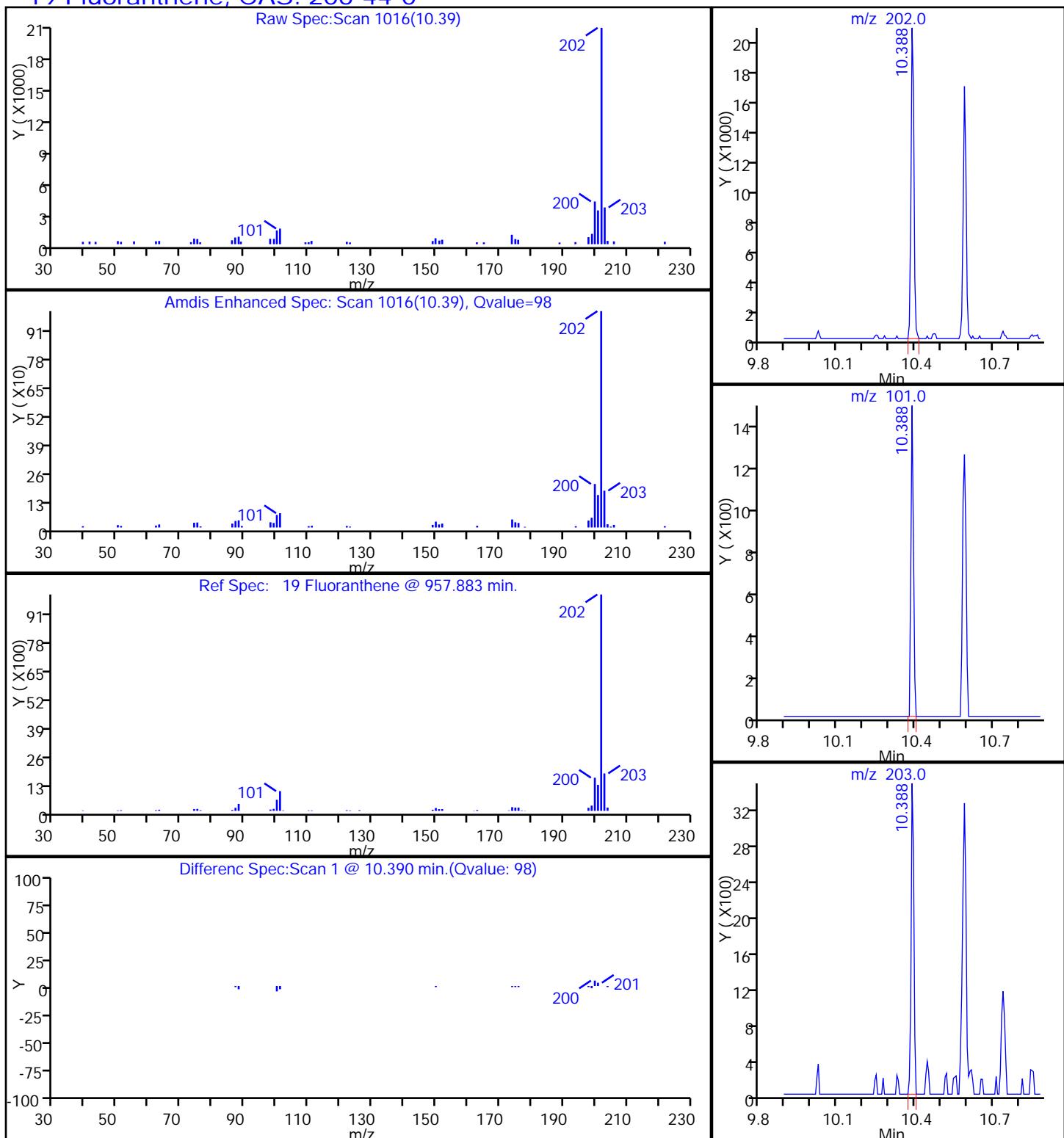
**24 Benzo[k]fluoranthene, CAS: 207-08-9**

TestAmerica Savannah  
 Data File: \\ChromNA\\Savannah\\ChromData\\CMSY\\20150818-22358.b\\1YF18023.D  
 Injection Date: 18-Aug-2015 22:06:30 Instrument ID: CMSY  
 Lims ID: 680-115692-A-15-A Lab Sample ID: 680-115692-15  
 Client ID: CV0511HHH-CSD-12  
 Operator ID: LIMS import ALS Bottle#: 23 Worklist Smp#: 23  
 Injection Vol: 2.0 ul Dil. Factor: 10.0000  
 Method: 8270D\_LLPAH\_MSY Limit Group: 8270D\_LL\_PAH  
 Column: Restek RXi-5Sil MS ( 0.25 mm) Detector: MS SCAN

### 22 Chrysene, CAS: 218-01-9

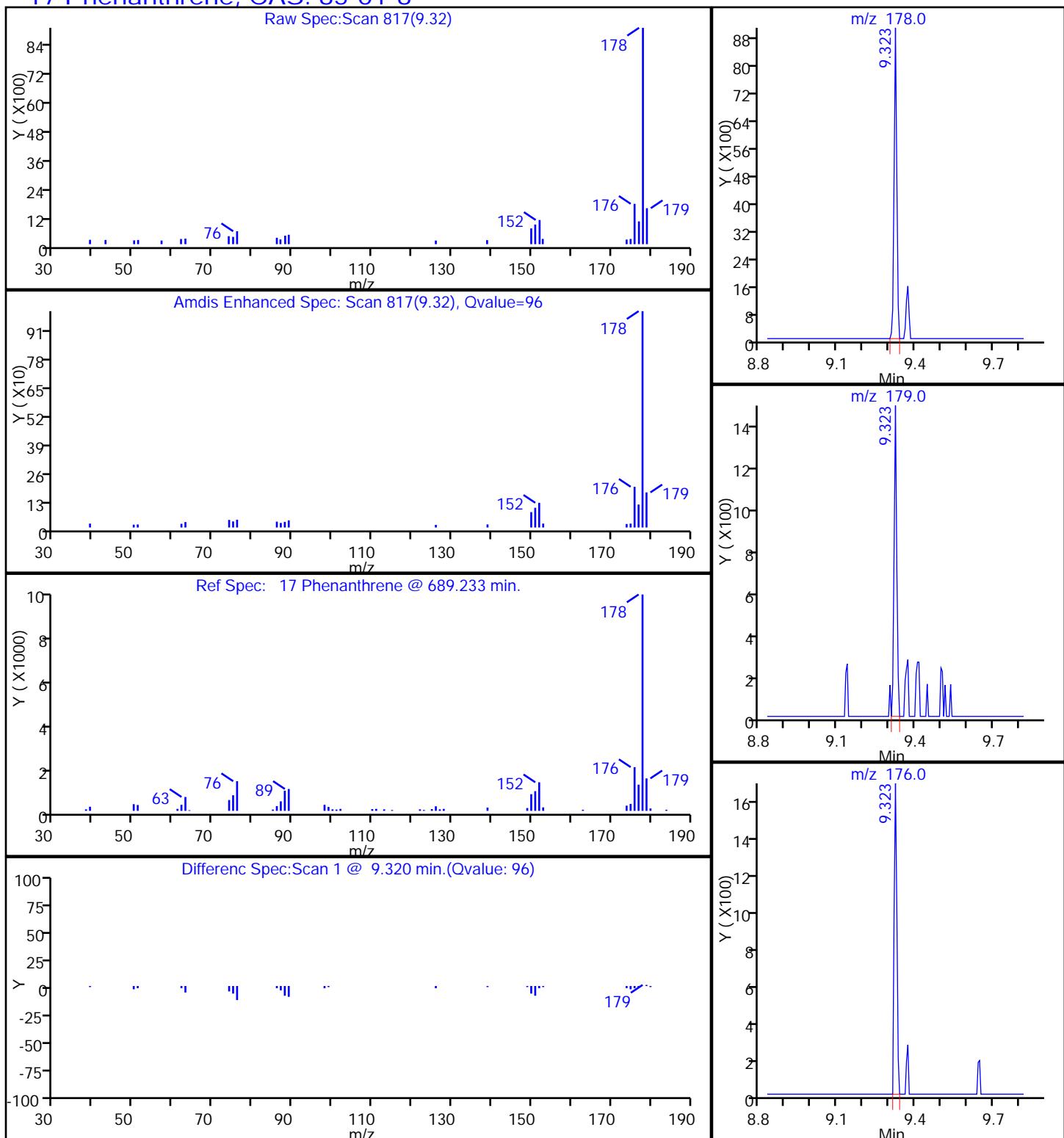


TestAmerica Savannah  
 Data File: \\ChromNA\\Savannah\\ChromData\\CMSY\\20150818-22358.b\\1YF18023.D  
 Injection Date: 18-Aug-2015 22:06:30 Instrument ID: CMSY  
 Lims ID: 680-115692-A-15-A Lab Sample ID: 680-115692-15  
 Client ID: CV0511HHH-CSD-12  
 Operator ID: LIMS import ALS Bottle#: 23 Worklist Smp#: 23  
 Injection Vol: 2.0 ul Dil. Factor: 10.0000  
 Method: 8270D\_LLPAH\_MSY Limit Group: 8270D\_LL\_PAH  
 Column: Restek RXi-5Sil MS ( 0.25 mm) Detector MS SCAN

**19 Fluoranthene, CAS: 206-44-0**

TestAmerica Savannah  
 Data File: \\ChromNA\\Savannah\\ChromData\\CMSY\\20150818-22358.b\\1YF18023.D  
 Injection Date: 18-Aug-2015 22:06:30 Instrument ID: CMSY  
 Lims ID: 680-115692-A-15-A Lab Sample ID: 680-115692-15  
 Client ID: CV0511HHH-CSD-12  
 Operator ID: LIMS import ALS Bottle#: 23 Worklist Smp#: 23  
 Injection Vol: 2.0 ul Dil. Factor: 10.0000  
 Method: 8270D\_LLPAH\_MSY Limit Group: 8270D\_LL\_PAH  
 Column: Restek RXi-5Sil MS ( 0.25 mm) Detector: MS SCAN

### 17 Phenanthrene, CAS: 85-01-8



TestAmerica Savannah

Data File: \\ChromNA\\Savannah\\ChromData\CMSY\\20150818-22358.b\\1YF18023.D

Injection Date: 18-Aug-2015 22:06:30

Instrument ID: CMSY

Lims ID: 680-115692-A-15-A

Lab Sample ID: 680-115692-15

Client ID: CV0511HHH-CSD-12

Operator ID: LIMS import

ALS Bottle#: 23 Worklist Smp#: 23

Injection Vol: 2.0 ul

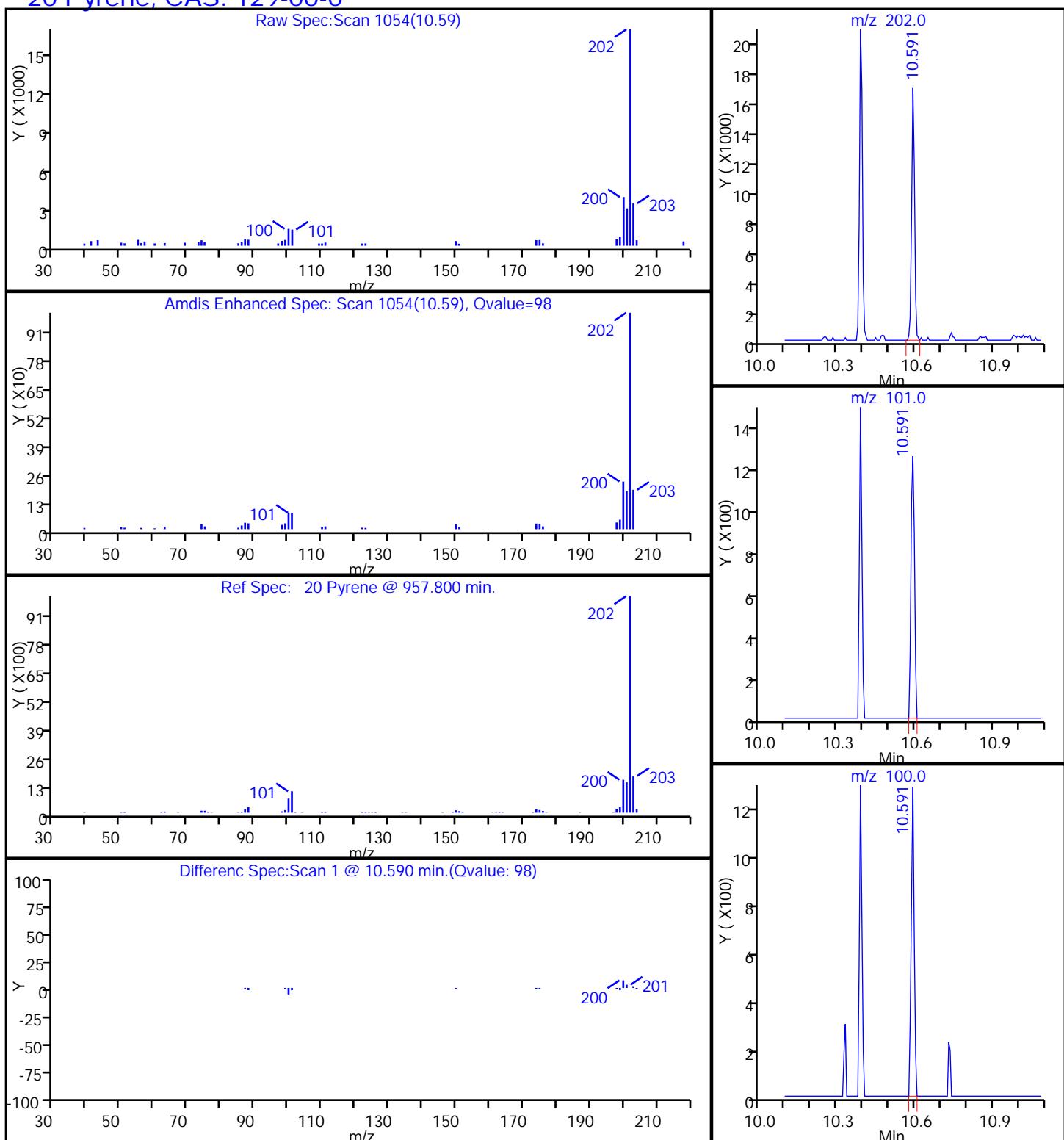
Dil. Factor: 10.0000

Method: 8270D\_LLPAH\_MSY

Limit Group: 8270D\_LL\_PAH

Column: Restek RXi-5Sil MS ( 0.25 mm)

Detector MS SCAN

**20 Pyrene, CAS: 129-00-0**

FORM I  
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Savannah	Job No.: 680-115692-1
SDG No.: 680-115692-01	
Client Sample ID: CV0511HHH-CS-12	Lab Sample ID: 680-115692-16
Matrix: Solid	Lab File ID: 1YF18024.D
Analysis Method: 8270D_LL_PAH	Date Collected: 08/11/2015 08:45
Extract. Method: 3546	Date Extracted: 08/17/2015 10:44
Sample wt/vol: 30.10(g)	Date Analyzed: 08/18/2015 22:34
Con. Extract Vol.: 1(mL)	Dilution Factor: 10
Injection Volume: 2(uL)	Level: (low/med) Low
% Moisture: 14.2	GPC Cleanup: (Y/N) N
Analysis Batch No.: 396712	Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	78	U	78	38
208-96-8	Acenaphthylene	78	U	78	38
120-12-7	Anthracene	78	U	78	38
56-55-3	Benzo[a]anthracene	52	J	78	38
50-32-8	Benzo[a]pyrene	47	J	78	14
205-99-2	Benzo[b]fluoranthene	83		78	38
191-24-2	Benzo[g,h,i]perylene	78	U	78	38
207-08-9	Benzo[k]fluoranthene	33	J	78	23
218-01-9	Chrysene	53	J	78	38
53-70-3	Dibenz(a,h)anthracene	78	U	78	38
206-44-0	Fluoranthene	89		78	38
86-73-7	Fluorene	78	U	78	38
193-39-5	Indeno[1,2,3-cd]pyrene	78	U	78	38
90-12-0	1-Methylnaphthalene	78	U	78	36
91-57-6	2-Methylnaphthalene	78	U	78	38
91-20-3	Naphthalene	78	U	78	38
85-01-8	Phenanthrene	51	J	78	28
129-00-0	Pyrene	75	J	78	38

CAS NO.	SURROGATE	%REC	Q	LIMITS
84-15-1	o-Terphenyl	0	D	36-131

TestAmerica Savannah  
Target Compound Quantitation Report

Data File: \\ChromNA\Savannah\ChromData\CMSY\20150818-22358.b\1YF18024.D  
 Lims ID: 680-115692-A-16-A Lab Sample ID: 680-115692-16  
 Client ID: CV0511HHH-CS-12  
 Sample Type: Client  
 Inject. Date: 18-Aug-2015 22:34:30 ALS Bottle#: 24 Worklist Smp#: 24  
 Injection Vol: 2.0 ul Dil. Factor: 10.0000  
 Sample Info: 680-115692-A-16-A  
 Misc. Info.: 680-0022358-024  
 Operator ID: LIMS import Instrument ID: CMSY  
 Method: \\ChromNA\Savannah\ChromData\CMSY\20150818-22358.b\8270D\_LLPAH\_MSY.m  
 Limit Group: 8270D\_LL\_PAH  
 Last Update: 19-Aug-2015 11:22:28 Calib Date: 12-Aug-2015 16:37:30  
 Integrator: RTE ID Type: Deconvolution ID  
 Quant Method: Internal Standard Quant By: Initial Calibration  
 Last ICal File: \\ChromNA\Savannah\ChromData\CMSY\20150812-22174.b\1YF12008.D  
 Column 1 : Restek RXi-5Sil MS ( 0.25 mm) Det: MS SCAN  
 Process Host: XAWRK003

First Level Reviewer: millsj Date: 19-Aug-2015 11:19:02

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/ml	Flags
* 1 Naphthalene-d8	136	6.366	6.366	0.000	99	47649	2.00	
* 2 Acenaphthene-d10	164	7.970	7.975	-0.005	97	26301	2.00	
* 3 Phenanthrene-d10	188	9.302	9.307	-0.005	97	58210	2.00	
* 4 Chrysene-d12	240	11.757	11.773	-0.016	98	82157	2.00	
* 5 Perylene-d12	264	13.528	13.538	-0.010	98	65928	2.00	
7 Naphthalene	128	6.387	6.387	0.000	28	1398	0.0650	
9 2-Methylnaphthalene	142	7.034	7.034	0.000	44	1130	0.0735	
10 1-Methylnaphthalene	142	7.120	7.120	0.000	9	919	0.0673	
17 Phenanthrene	178	9.323	9.329	-0.006	96	3672	0.1320	
19 Fluoranthene	202	10.388	10.398	-0.010	98	7705	0.2305	
20 Pyrene	202	10.591	10.602	-0.011	98	6939	0.1933	
21 Benzo[a]anthracene	228	11.746	11.762	-0.016	95	5291	0.1338	
22 Chrysene	228	11.784	11.805	-0.021	99	5180	0.1371	
23 Benzo[b]fluoranthene	252	13.025	13.041	-0.016	96	6876	0.2134	
24 Benzo[k]fluoranthene	252	13.057	13.078	-0.021	1	2679	0.0852	
25 Benzo[a]pyrene	252	13.453	13.469	-0.016	71	3600	0.1201	

**Reagents:**

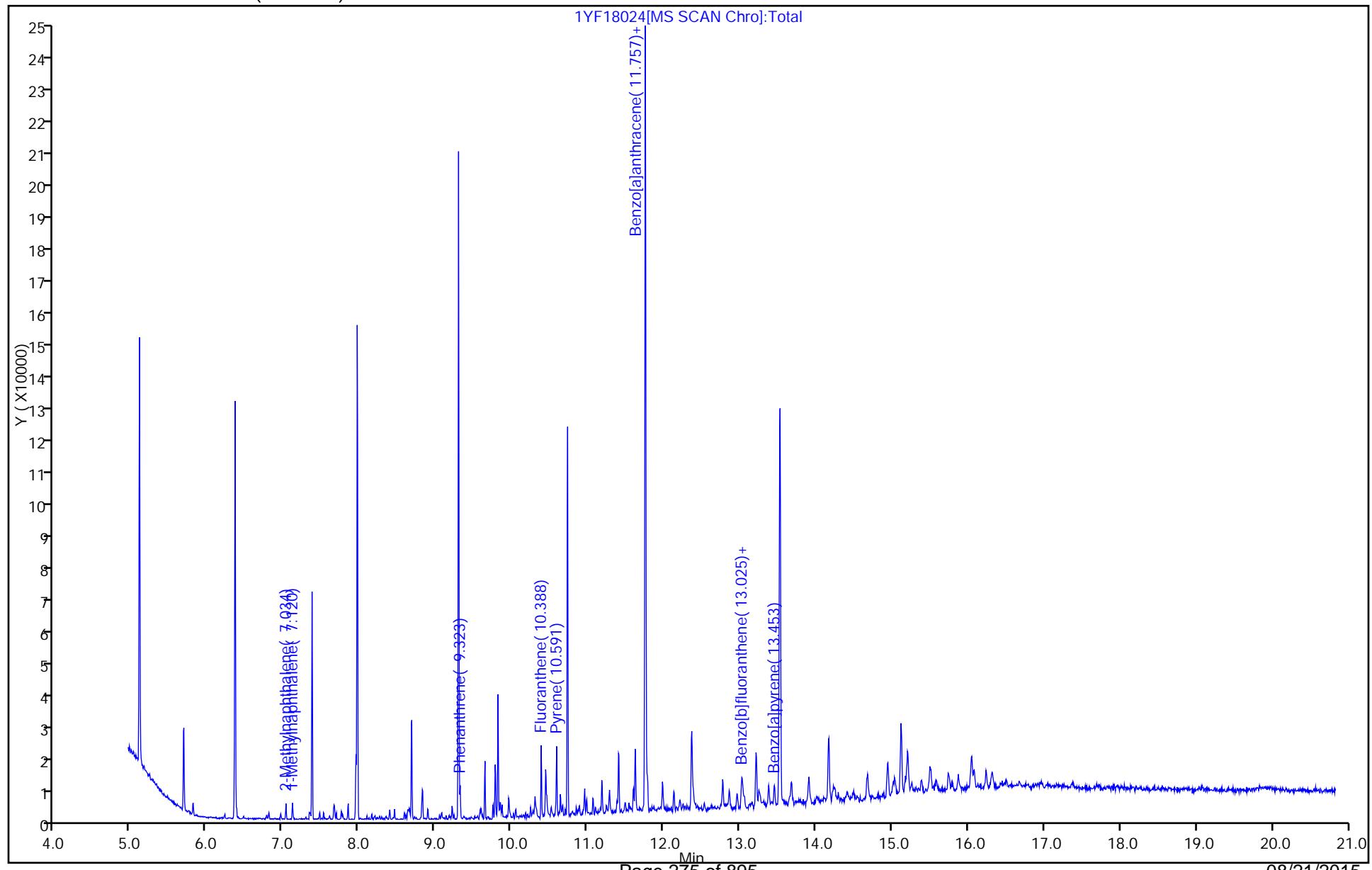
SM-LLISTD\_00128 Amount Added: 10.00 Units: uL Run Reagent

Report Date: 19-Aug-2015 11:22:58

Chrom Revision: 2.2 23-Jul-2015 08:26:08

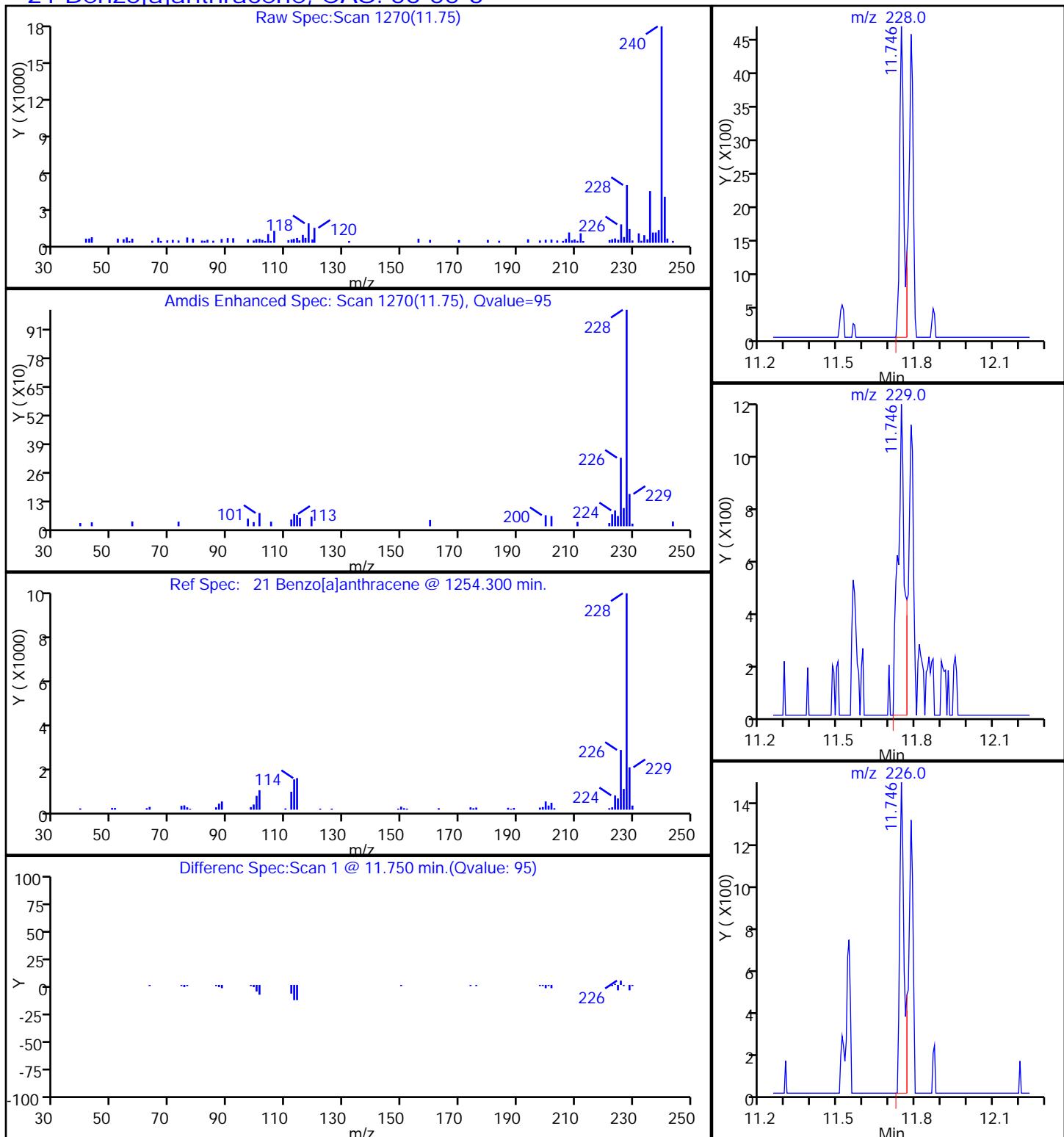
TestAmerica Savannah

Data File: \\ChromNA\Savannah\ChromData\CMSY\20150818-22358.b\1YF18024.D  
Injection Date: 18-Aug-2015 22:34:30 Instrument ID: CMSY Operator ID: LIMS import  
Lims ID: 680-115692-A-16-A Lab Sample ID: 680-115692-16 Worklist Smp#: 24  
Client ID: CV0511HHH-CS-12  
Injection Vol: 2.0 ul Dil. Factor: 10.0000 ALS Bottle#: 24  
Method: 8270D\_LLPAH\_MSY Limit Group: 8270D\_LL\_PAH  
Column: Restek RXi-5Sil MS (0.25 mm)

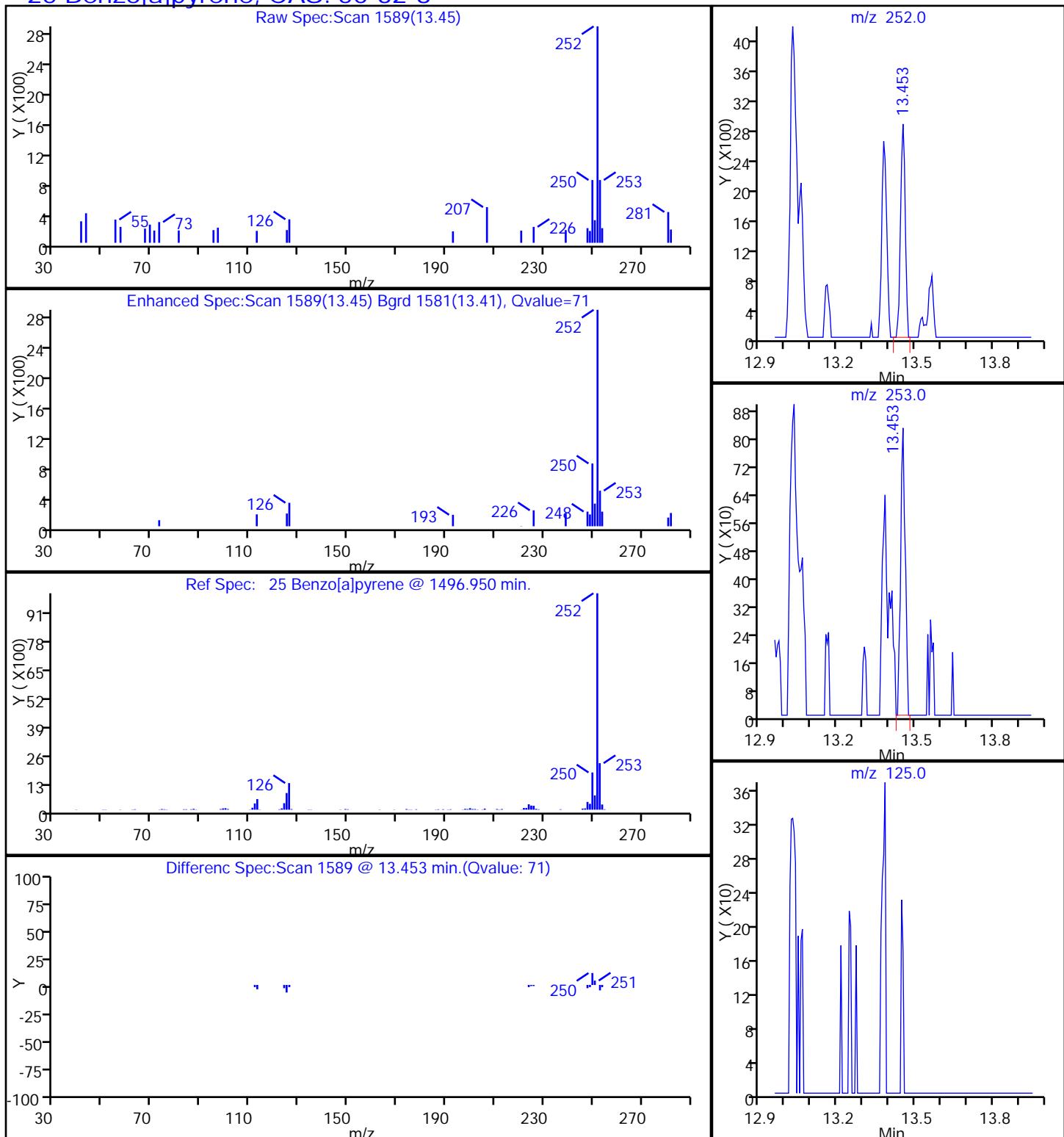


TestAmerica Savannah  
 Data File: \\ChromNA\\Savannah\\ChromData\\CMSY\\20150818-22358.b\\1YF18024.D  
 Injection Date: 18-Aug-2015 22:34:30 Instrument ID: CMSY  
 Lims ID: 680-115692-A-16-A Lab Sample ID: 680-115692-16  
 Client ID: CV0511HHH-CS-12  
 Operator ID: LIMS import ALS Bottle#: 24 Worklist Smp#: 24  
 Injection Vol: 2.0 ul Dil. Factor: 10.0000  
 Method: 8270D\_LLPAH\_MSY Limit Group: 8270D\_LL\_PAH  
 Column: Restek RXi-5Sil MS ( 0.25 mm) Detector MS SCAN

### 21 Benzo[a]anthracene, CAS: 56-55-3

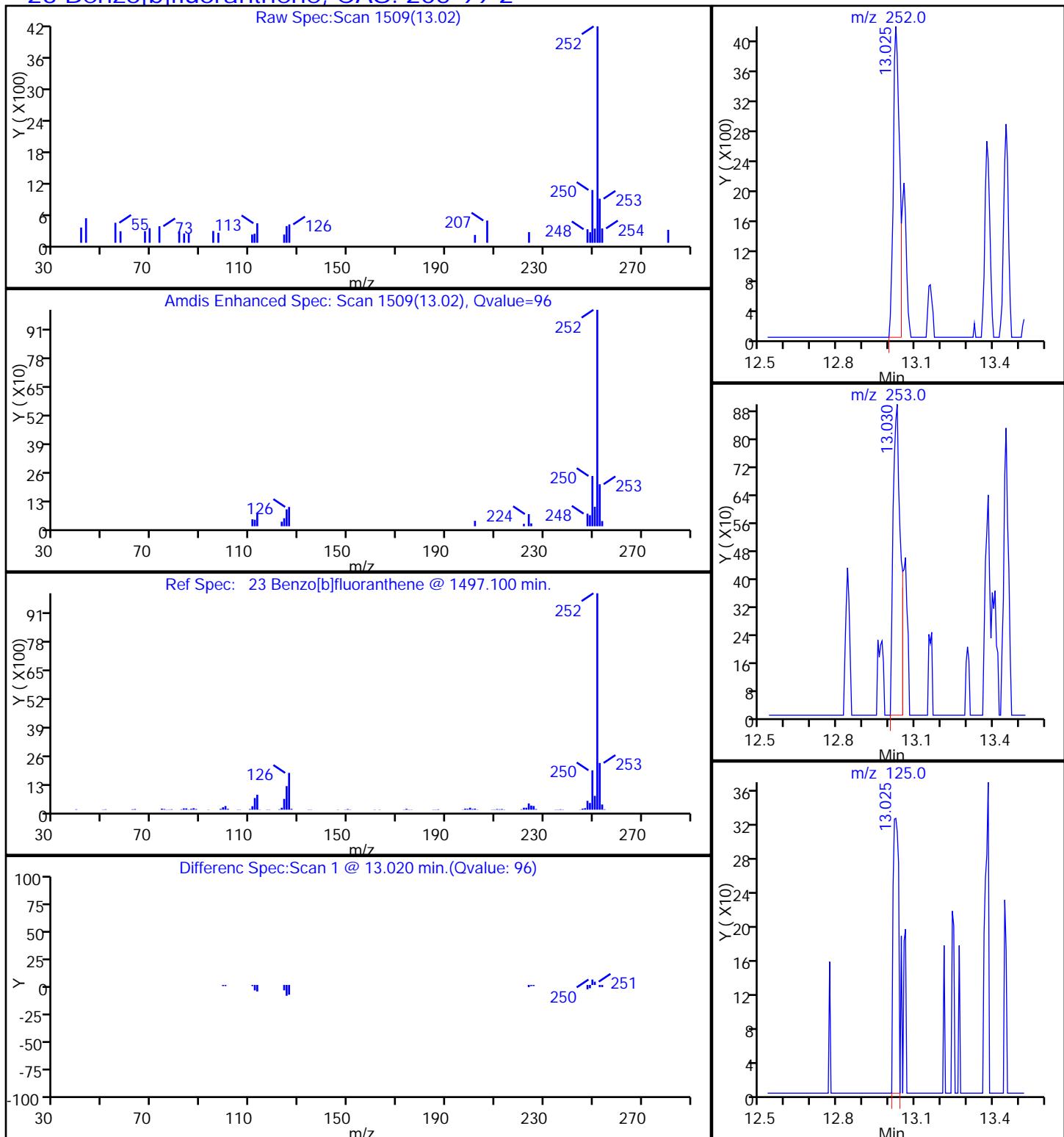


TestAmerica Savannah  
 Data File: \\ChromNA\\Savannah\\ChromData\\CMSY\\20150818-22358.b\\1YF18024.D  
 Injection Date: 18-Aug-2015 22:34:30 Instrument ID: CMSY  
 Lims ID: 680-115692-A-16-A Lab Sample ID: 680-115692-16  
 Client ID: CV0511HHH-CS-12  
 Operator ID: LIMS import ALS Bottle#: 24 Worklist Smp#: 24  
 Injection Vol: 2.0 ul Dil. Factor: 10.0000  
 Method: 8270D\_LLPAH\_MSY Limit Group: 8270D\_LL\_PAH  
 Column: Restek RXi-5Sil MS ( 0.25 mm) Detector: MS SCAN

**25 Benzo[a]pyrene, CAS: 50-32-8**

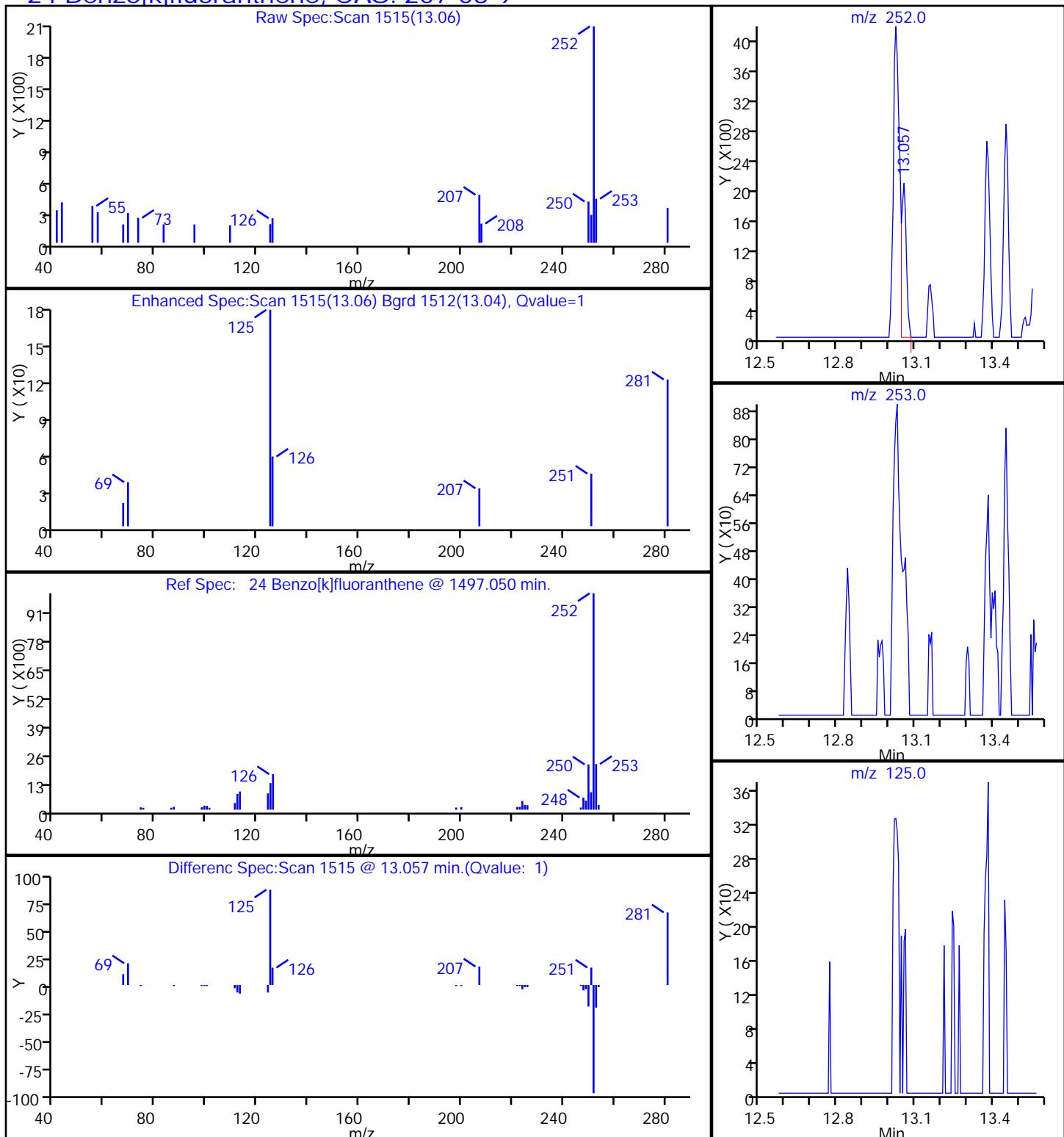
TestAmerica Savannah  
 Data File: \\ChromNA\\Savannah\\ChromData\\CMSY\\20150818-22358.b\\1YF18024.D  
 Injection Date: 18-Aug-2015 22:34:30 Instrument ID: CMSY  
 Lims ID: 680-115692-A-16-A Lab Sample ID: 680-115692-16  
 Client ID: CV0511HHH-CS-12  
 Operator ID: LIMS import ALS Bottle#: 24 Worklist Smp#: 24  
 Injection Vol: 2.0 ul Dil. Factor: 10.0000  
 Method: 8270D\_LLPAH\_MSY Limit Group: 8270D\_LL\_PAH  
 Column: Restek RXi-5Sil MS ( 0.25 mm) Detector MS SCAN

### 23 Benzo[b]fluoranthene, CAS: 205-99-2



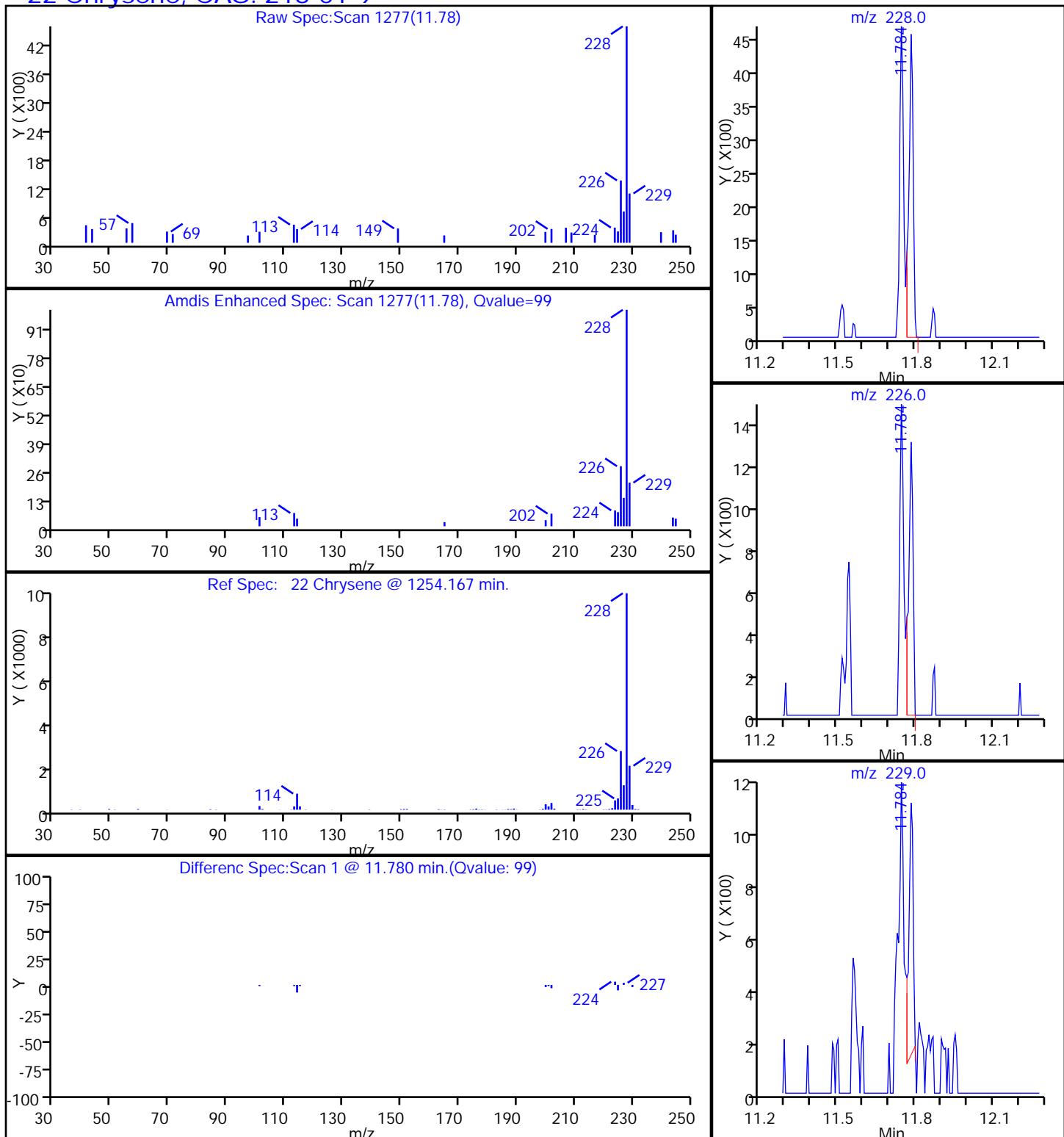
TestAmerica Savannah  
 Data File: \\ChromNA\\Savannah\\ChromData\\CMSY\\20150818-22358.b\\1YF18024.D  
 Injection Date: 18-Aug-2015 22:34:30 Instrument ID: CMSY  
 Lims ID: 680-115692-A-16-A Lab Sample ID: 680-115692-16  
 Client ID: CV0511HHH-CS-12  
 Operator ID: LIMS import ALS Bottle#: 24 Worklist Smp#: 24  
 Injection Vol: 2.0 ul Dil. Factor: 10.0000  
 Method: 8270D\_LLPAH\_MSY Limit Group: 8270D\_LL\_PAH  
 Column: Restek RXi-5Sil MS ( 0.25 mm) Detector MS SCAN

### 24 Benzo[k]fluoranthene, CAS: 207-08-9



TestAmerica Savannah  
 Data File: \\ChromNA\\Savannah\\ChromData\\CMSY\\20150818-22358.b\\1YF18024.D  
 Injection Date: 18-Aug-2015 22:34:30 Instrument ID: CMSY  
 Lims ID: 680-115692-A-16-A Lab Sample ID: 680-115692-16  
 Client ID: CV0511HHH-CS-12  
 Operator ID: LIMS import ALS Bottle#: 24 Worklist Smp#: 24  
 Injection Vol: 2.0 ul Dil. Factor: 10.0000  
 Method: 8270D\_LLPAH\_MSY Limit Group: 8270D\_LL\_PAH  
 Column: Restek RXi-5Sil MS ( 0.25 mm) Detector: MS SCAN

### 22 Chrysene, CAS: 218-01-9



TestAmerica Savannah

Data File: \\ChromNA\\Savannah\\ChromData\CMSY\\20150818-22358.b\\1YF18024.D

Injection Date: 18-Aug-2015 22:34:30

Instrument ID: CMSY

Lims ID: 680-115692-A-16-A

Lab Sample ID: 680-115692-16

Client ID: CV0511HHH-CS-12

Operator ID: LIMS import

ALS Bottle#: 24 Worklist Smp#: 24

Injection Vol: 2.0 ul

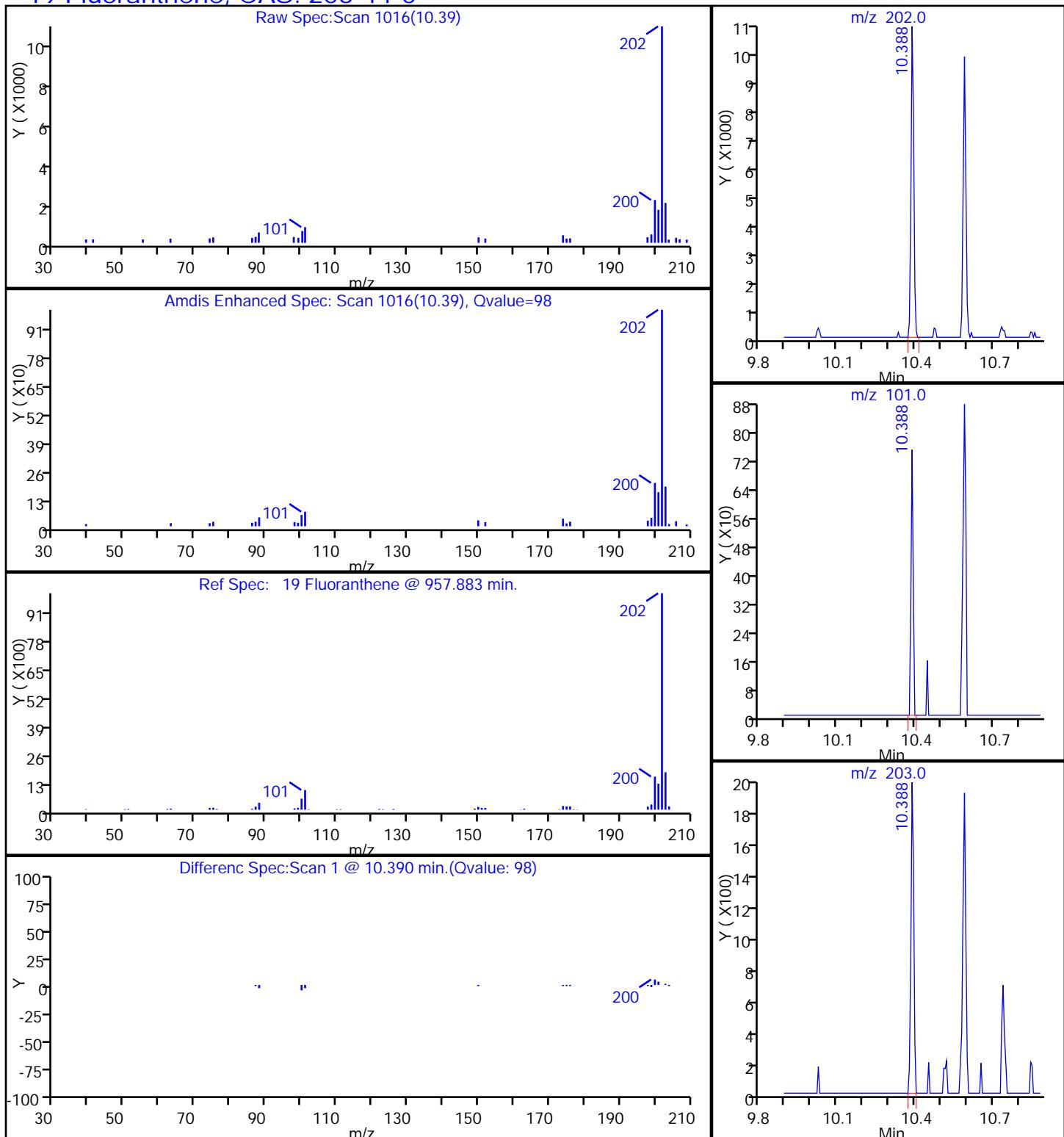
Dil. Factor: 10.0000

Method: 8270D\_LLPAH\_MSY

Limit Group: 8270D\_LL\_PAH

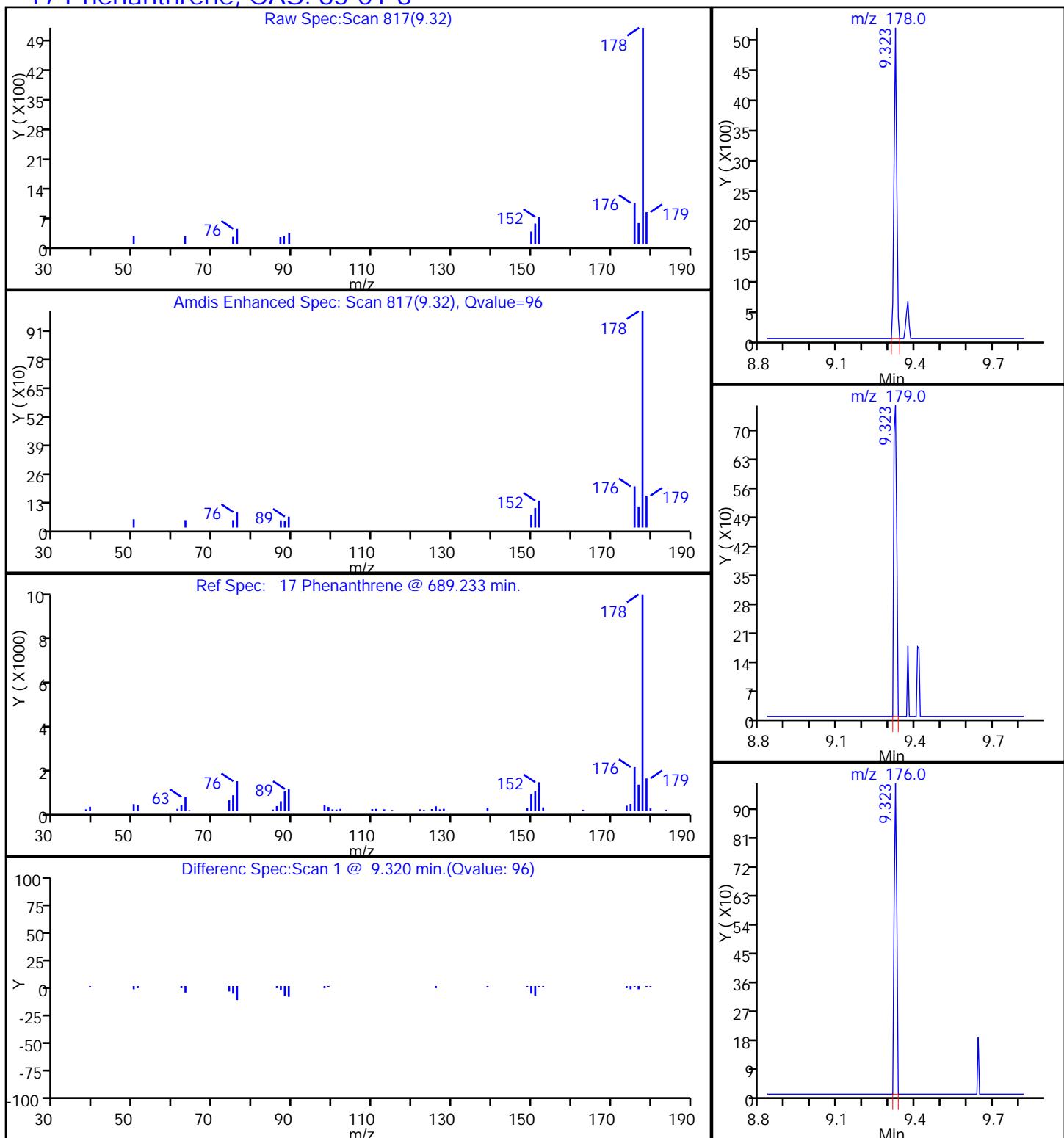
Column: Restek RXi-5Sil MS ( 0.25 mm)

Detector: MS SCAN

**19 Fluoranthene, CAS: 206-44-0**

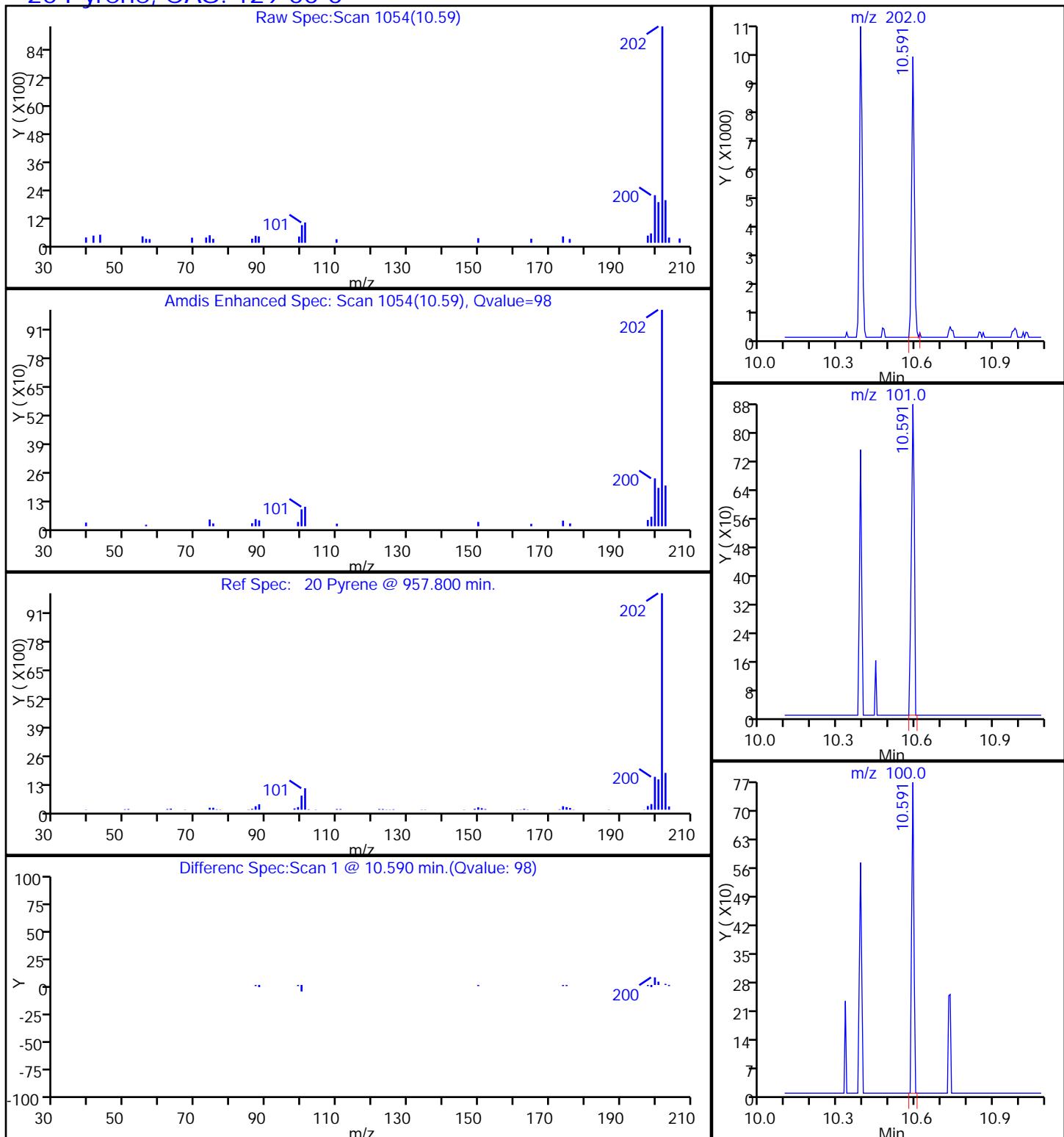
TestAmerica Savannah  
 Data File: \\ChromNA\\Savannah\\ChromData\\CMSY\\20150818-22358.b\\1YF18024.D  
 Injection Date: 18-Aug-2015 22:34:30 Instrument ID: CMSY  
 Lims ID: 680-115692-A-16-A Lab Sample ID: 680-115692-16  
 Client ID: CV0511HHH-CS-12  
 Operator ID: LIMS import ALS Bottle#: 24 Worklist Smp#: 24  
 Injection Vol: 2.0 ul Dil. Factor: 10.0000  
 Method: 8270D\_LLPAH\_MSY Limit Group: 8270D\_LL\_PAH  
 Column: Restek RXi-5Sil MS ( 0.25 mm) Detector: MS SCAN

### 17 Phenanthrene, CAS: 85-01-8



TestAmerica Savannah  
 Data File: \\ChromNA\\Savannah\\ChromData\\CMSY\\20150818-22358.b\\1YF18024.D  
 Injection Date: 18-Aug-2015 22:34:30 Instrument ID: CMSY  
 Lims ID: 680-115692-A-16-A Lab Sample ID: 680-115692-16  
 Client ID: CV0511HHH-CS-12  
 Operator ID: LIMS import ALS Bottle#: 24 Worklist Smp#: 24  
 Injection Vol: 2.0 ul Dil. Factor: 10.0000  
 Method: 8270D\_LLPAH\_MSY Limit Group: 8270D\_LL\_PAH  
 Column: Restek RXi-5Sil MS ( 0.25 mm) Detector MS SCAN

## 20 Pyrene, CAS: 129-00-0



FORM I  
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Savannah Job No.: 680-115692-1  
 SDG No.: 680-115692-01  
 Client Sample ID: CV0511HHH-CS-18 Lab Sample ID: 680-115692-17  
 Matrix: Solid Lab File ID: 1YF18025.D  
 Analysis Method: 8270D\_LL\_PAH Date Collected: 08/11/2015 08:50  
 Extract. Method: 3546 Date Extracted: 08/17/2015 10:44  
 Sample wt/vol: 30.05(g) Date Analyzed: 08/18/2015 23:02  
 Con. Extract Vol.: 1(mL) Dilution Factor: 10  
 Injection Volume: 2(uL) Level: (low/med) Low  
 % Moisture: 15.6 GPC Cleanup: (Y/N) N  
 Analysis Batch No.: 396712 Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	79	U	79	39
208-96-8	Acenaphthylene	79	U	79	39
120-12-7	Anthracene	79	U	79	39
56-55-3	Benzo[a]anthracene	79	U	79	39
50-32-8	Benzo[a]pyrene	79	U	79	14
205-99-2	Benzo[b]fluoranthene	52	J	79	39
191-24-2	Benzo[g,h,i]perylene	79	U	79	39
207-08-9	Benzo[k]fluoranthene	79	U	79	24
218-01-9	Chrysene	79	U	79	39
53-70-3	Dibenz(a,h)anthracene	79	U	79	39
206-44-0	Fluoranthene	55	J	79	39
86-73-7	Fluorene	79	U	79	39
193-39-5	Indeno[1,2,3-cd]pyrene	79	U	79	39
90-12-0	1-Methylnaphthalene	79	U	79	37
91-57-6	2-Methylnaphthalene	79	U	79	39
91-20-3	Naphthalene	79	U	79	39
85-01-8	Phenanthrene	79	U	79	28
129-00-0	Pyrene	45	J	79	39

CAS NO.	SURROGATE	%REC	Q	LIMITS
84-15-1	o-Terphenyl	0	D	36-131

TestAmerica Savannah  
Target Compound Quantitation Report

Data File: \\ChromNA\Savannah\ChromData\CMSY\20150818-22358.b\1YF18025.D  
 Lims ID: 680-115692-A-17-A Lab Sample ID: 680-115692-17  
 Client ID: CV0511HHH-CS-18  
 Sample Type: Client  
 Inject. Date: 18-Aug-2015 23:02:30 ALS Bottle#: 25 Worklist Smp#: 25  
 Injection Vol: 2.0 ul Dil. Factor: 10.0000  
 Sample Info: 680-115692-A-17-A  
 Misc. Info.: 680-0022358-025  
 Operator ID: LIMS import Instrument ID: CMSY  
 Method: \\ChromNA\Savannah\ChromData\CMSY\20150818-22358.b\8270D\_LLPAH\_MSY.m  
 Limit Group: 8270D\_LL\_PAH  
 Last Update: 19-Aug-2015 11:22:28 Calib Date: 12-Aug-2015 16:37:30  
 Integrator: RTE ID Type: Deconvolution ID  
 Quant Method: Internal Standard Quant By: Initial Calibration  
 Last ICAL File: \\ChromNA\Savannah\ChromData\CMSY\20150812-22174.b\1YF12008.D  
 Column 1 : Restek RXi-5Sil MS ( 0.25 mm) Det: MS SCAN  
 Process Host: XAWRK003

First Level Reviewer: millsj Date: 19-Aug-2015 11:20:00

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/ml	Flags
* 1 Naphthalene-d8	136	6.365	6.366	-0.001	99	47688	2.00	
* 2 Acenaphthene-d10	164	7.970	7.975	-0.005	96	26106	2.00	
* 3 Phenanthrene-d10	188	9.302	9.307	-0.005	97	55877	2.00	
* 4 Chrysene-d12	240	11.757	11.773	-0.016	98	82614	2.00	
* 5 Perylene-d12	264	13.527	13.538	-0.011	99	65365	2.00	
19 Fluoranthene	202	10.388	10.398	-0.010	98	4459	0.1390	
20 Pyrene	202	10.591	10.602	-0.011	98	4150	0.1149	
21 Benzo[a]anthracene	228	11.746	11.762	-0.016	95	3309	0.0832	
22 Chrysene	228	11.784	11.805	-0.021	96	3002	0.0790	
23 Benzo[b]fluoranthene	252	13.025	13.041	-0.016	96	4250	0.1330	
24 Benzo[k]fluoranthene	252	13.057	13.078	-0.021	1	1570	0.0503	7

### QC Flag Legend

Processing Flags

7 - Failed Limit of Detection

### Reagents:

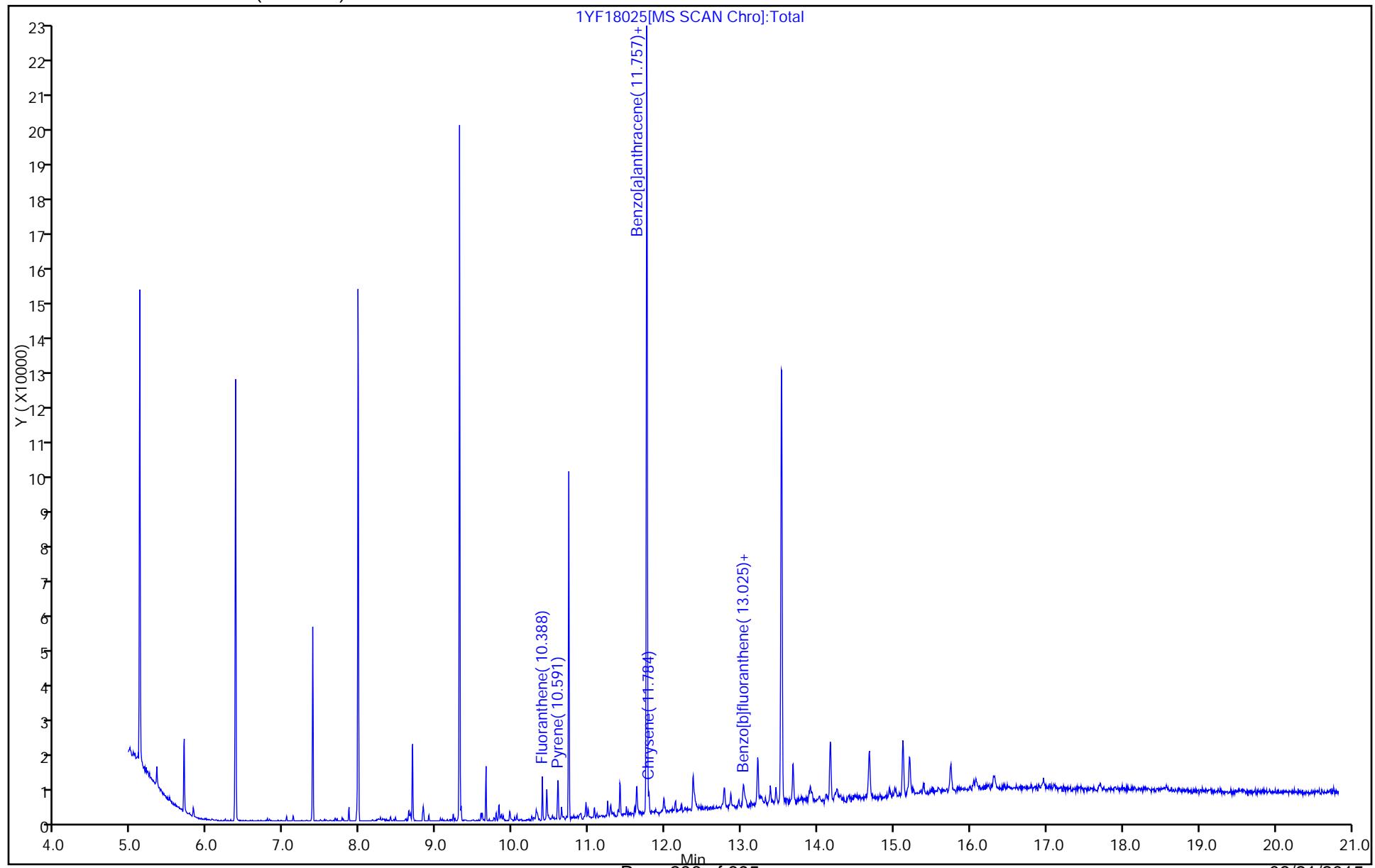
SM-LLISTD_00128	Amount Added: 10.00	Units: uL
		Run Reagent

Report Date: 19-Aug-2015 11:23:00

Chrom Revision: 2.2 23-Jul-2015 08:26:08

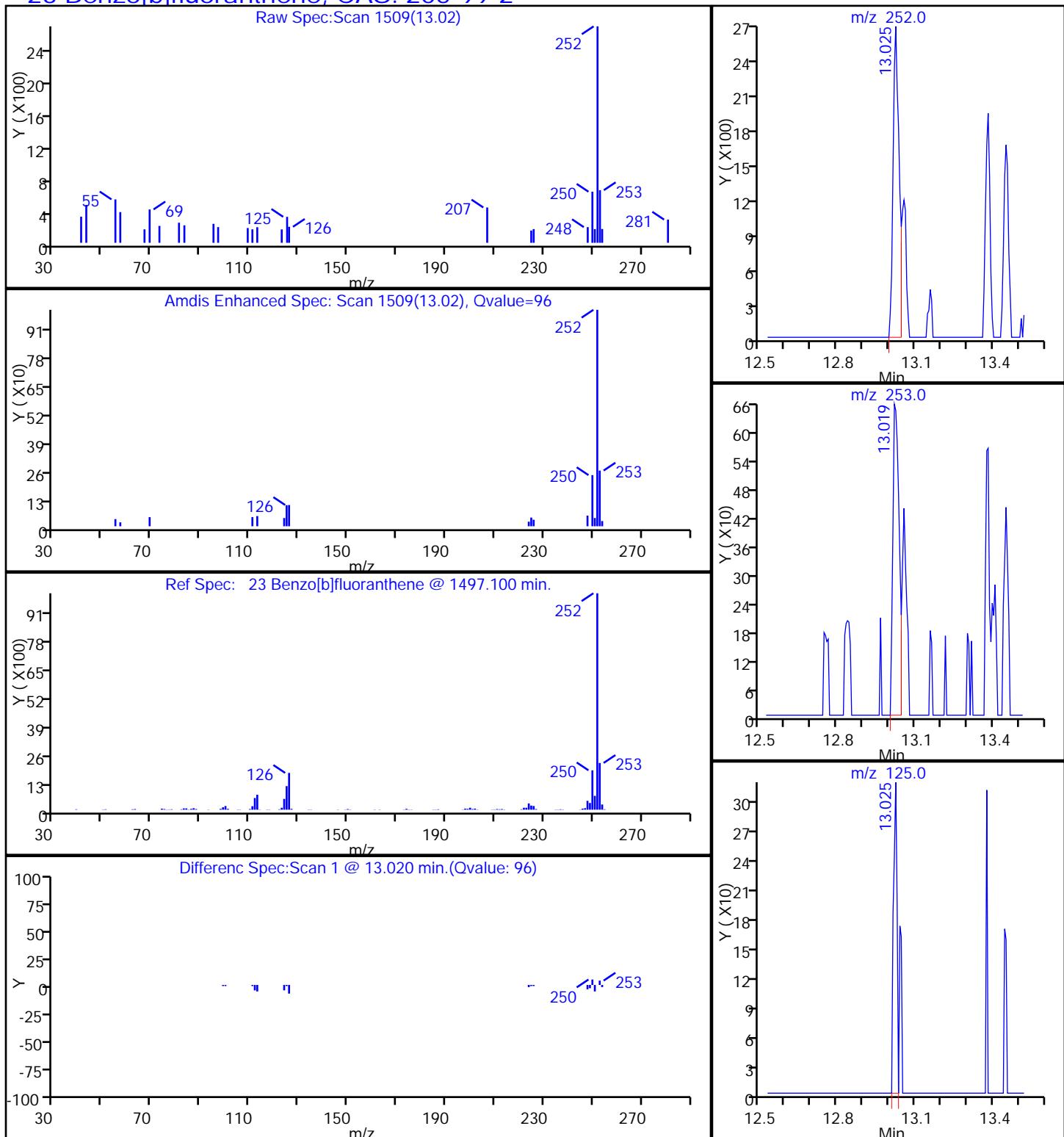
## TestAmerica Savannah

Data File: \\ChromNA\\Savannah\\ChromData\\CMSY\\20150818-22358.b\\1YF18025.D  
Injection Date: 18-Aug-2015 23:02:30 Instrument ID: CMSY Operator ID: LIMS import  
Lims ID: 680-115692-A-17-A Lab Sample ID: 680-115692-17 Worklist Smp#: 25  
Client ID: CV0511HHH-CS-18  
Injection Vol: 2.0 ul Dil. Factor: 10.0000 ALS Bottle#: 25  
Method: 8270D\_LLPAH\_MSY Limit Group: 8270D\_LL\_PAH  
Column: Restek RXi-5Sil MS ( 0.25 mm)



TestAmerica Savannah  
 Data File: \\ChromNA\\Savannah\\ChromData\\CMSY\\20150818-22358.b\\1YF18025.D  
 Injection Date: 18-Aug-2015 23:02:30 Instrument ID: CMSY  
 Lims ID: 680-115692-A-17-A Lab Sample ID: 680-115692-17  
 Client ID: CV0511HHH-CS-18  
 Operator ID: LIMS import ALS Bottle#: 25 Worklist Smp#: 25  
 Injection Vol: 2.0 ul Dil. Factor: 10.0000  
 Method: 8270D\_LLPAH\_MSY Limit Group: 8270D\_LL\_PAH  
 Column: Restek RXi-5Sil MS ( 0.25 mm) Detector MS SCAN

### 23 Benzo[b]fluoranthene, CAS: 205-99-2



TestAmerica Savannah

Data File: \\ChromNA\\Savannah\\ChromData\CMSY\\20150818-22358.b\\1YF18025.D

Injection Date: 18-Aug-2015 23:02:30

Instrument ID: CMSY

Lims ID: 680-115692-A-17-A

Lab Sample ID: 680-115692-17

Client ID: CV0511HHH-CS-18

Operator ID: LIMS import

ALS Bottle#: 25 Worklist Smp#: 25

Injection Vol: 2.0 ul

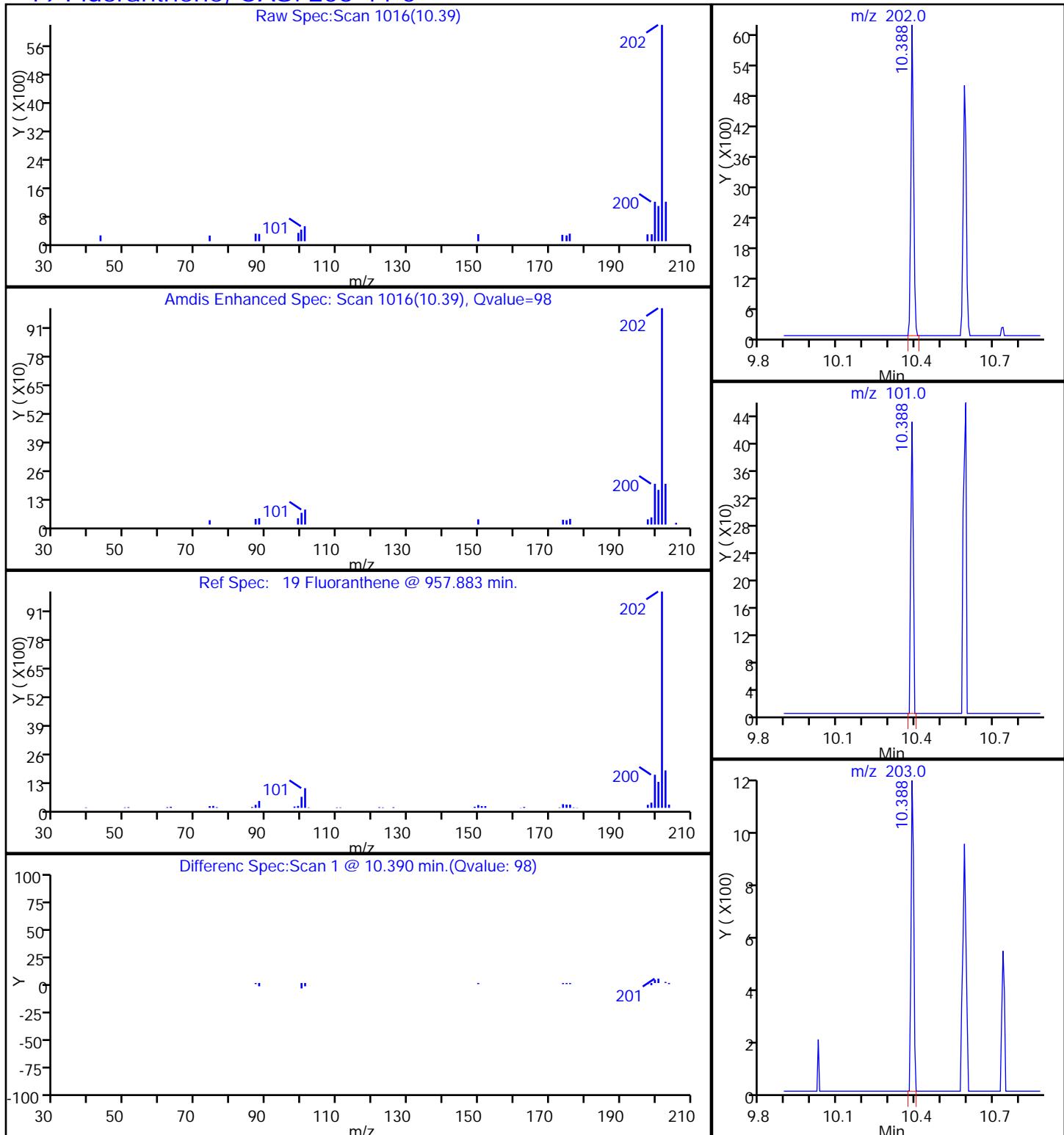
Dil. Factor: 10.0000

Method: 8270D\_LLPAH\_MSY

Limit Group: 8270D\_LL\_PAH

Column: Restek RXi-5Sil MS ( 0.25 mm)

Detector: MS SCAN

**19 Fluoranthene, CAS: 206-44-0**

TestAmerica Savannah

Data File: \\ChromNA\\Savannah\\ChromData\\CMSY\\20150818-22358.b\\1YF18025.D

Injection Date: 18-Aug-2015 23:02:30

Instrument ID: CMSY

Lims ID: 680-115692-A-17-A

Lab Sample ID: 680-115692-17

Client ID: CV0511HHH-CS-18

Operator ID: LIMS import

ALS Bottle#: 25 Worklist Smp#: 25

Injection Vol: 2.0 ul

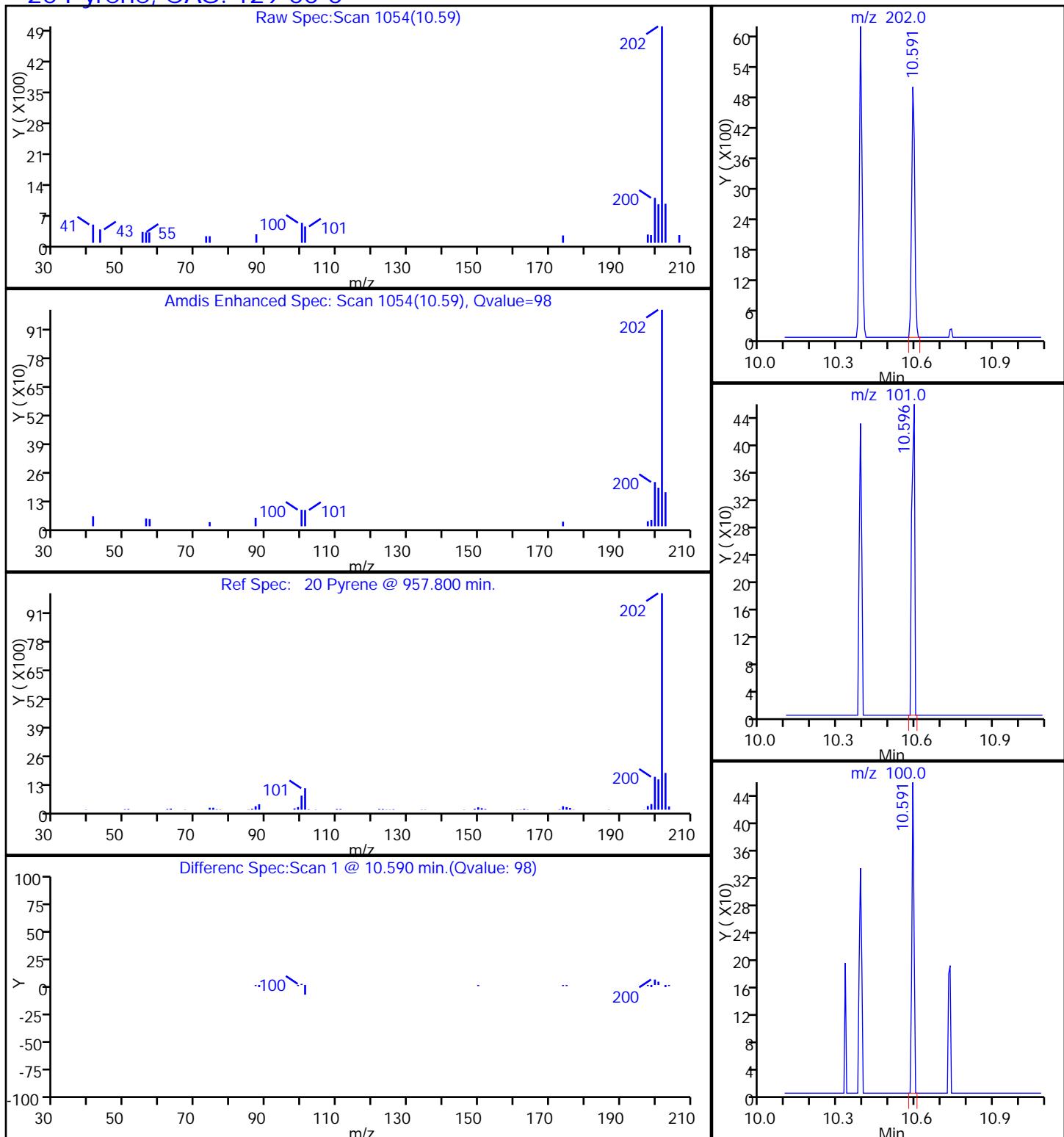
Dil. Factor: 10.0000

Method: 8270D\_LLPAH\_MSY

Limit Group: 8270D\_LL\_PAH

Column: Restek RXi-5Sil MS ( 0.25 mm)

Detector: MS SCAN

**20 Pyrene, CAS: 129-00-0**

FORM I  
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Savannah Job No.: 680-115692-1  
 SDG No.: 680-115692-01  
 Client Sample ID: CV0511HHH-CS-24 Lab Sample ID: 680-115692-18  
 Matrix: Solid Lab File ID: 1KH19025.D  
 Analysis Method: 8270D\_LL\_PAH Date Collected: 08/11/2015 08:55  
 Extract. Method: 3546 Date Extracted: 08/17/2015 10:44  
 Sample wt/vol: 30.02(g) Date Analyzed: 08/19/2015 21:38  
 Con. Extract Vol.: 1(mL) Dilution Factor: 10  
 Injection Volume: 2(uL) Level: (low/med) Low  
 % Moisture: 17.6 GPC Cleanup: (Y/N) N  
 Analysis Batch No.: 396964 Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	81	U	81	40
208-96-8	Acenaphthylene	81	U	81	40
120-12-7	Anthracene	81	U	81	40
56-55-3	Benzo[a]anthracene	120		81	40
50-32-8	Benzo[a]pyrene	100		81	15
205-99-2	Benzo[b]fluoranthene	190		81	40
191-24-2	Benzo[g,h,i]perylene	88		81	40
207-08-9	Benzo[k]fluoranthene	74	J	81	24
218-01-9	Chrysene	130		81	40
53-70-3	Dibenz(a,h)anthracene	81	U	81	40
206-44-0	Fluoranthene	160		81	40
86-73-7	Fluorene	81	U	81	40
193-39-5	Indeno[1,2,3-cd]pyrene	59	J	81	40
90-12-0	1-Methylnaphthalene	81	U	81	38
91-57-6	2-Methylnaphthalene	81	U	81	40
91-20-3	Naphthalene	81	U	81	40
85-01-8	Phenanthrene	72	J	81	29
129-00-0	Pyrene	240		81	40

CAS NO.	SURROGATE	%REC	Q	LIMITS
84-15-1	o-Terphenyl	0	D	36-131

TestAmerica Savannah  
Target Compound Quantitation Report

Data File: \\ChromNA\Savannah\ChromData\CMSK\20150819-22399.b\1KH19025.D  
 Lims ID: 680-115692-A-18-A Lab Sample ID: 680-115692-18  
 Client ID: CV0511HHH-CS-24  
 Sample Type: Client  
 Inject. Date: 19-Aug-2015 21:38:30 ALS Bottle#: 25 Worklist Smp#: 25  
 Injection Vol: 2.0 ul Dil. Factor: 10.0000  
 Sample Info: 680-115692-A-18-A  
 Misc. Info.: 680-0022399-025  
 Operator ID: LIMS import Instrument ID: CMSK  
 Method: \\ChromNA\Savannah\ChromData\CMSK\20150819-22399.b\8270\_LLPAH\_CMSK.m  
 Limit Group: 8270D\_LL\_PAH  
 Last Update: 20-Aug-2015 11:19:51 Calib Date: 13-Aug-2015 20:12:30  
 Integrator: RTE ID Type: RT Order ID  
 Quant Method: Internal Standard Quant By: Initial Calibration  
 Last ICAL File: \\ChromNA\Savannah\ChromData\CMSK\20150813-22239.b\1KF13008.D  
 Column 1 : Restek RXi-5Sil MS ( 0.25 mm) Det: MS SCAN  
 Process Host: XAWRK001

First Level Reviewer: moorer Date: 20-Aug-2015 11:19:51

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/ml	Flags
* 1 Naphthalene-d8	136	4.137	4.137	0.000	99	157743	2.00	
* 2 Acenaphthene-d10	164	5.923	5.923	0.000	97	72783	2.00	
* 3 Phenanthrene-d10	188	7.533	7.533	0.000	98	126880	2.00	
* 4 Chrysene-d12	240	10.359	10.353	0.006	99	75389	2.00	
* 5 Perylene-d12	264	11.857	11.828	0.029	98	57266	2.00	
15 Phenanthrene	178	7.562	7.556	0.006	97	11136	0.1770	
16 Anthracene	178	7.615	7.615	0.000	97	2240	0.0420	
17 Fluoranthene	202	8.861	8.855	0.006	98	27169	0.4052	
18 Pyrene	202	9.101	9.096	0.005	97	21399	0.5927	
19 Benzo[a]anthracene	228	10.347	10.341	0.006	98	10310	0.2895	
20 Chrysene	228	10.388	10.377	0.011	98	11584	0.3325	
21 Benzo[b]fluoranthene	252	11.434	11.434	0.023	98	13041	0.4675	M
22 Benzo[k]fluoranthene	252	11.458	11.458	0.018	99	5428	0.1842	M
23 Benzo[a]pyrene	252	11.792	11.769	0.023	96	6484	0.2597	
24 Indeno[1,2,3-cd]pyrene	276	13.273	13.244	0.029	98	4745	0.1449	
25 Dibenz(a,h)anthracene	278	13.297	13.267	0.030	93	1548	0.0713	
26 Benzo[g,h,i]perylene	276	13.696	13.667	0.029	98	4802	0.2171	

### QC Flag Legend

Review Flags

M - Manually Integrated

### Reagents:

SM-LLISTD\_00123

Amount Added: 10.00

Units: uL

Run Reagent

Report Date: 20-Aug-2015 11:19:52

Chrom Revision: 2.2 23-Jul-2015 08:26:08

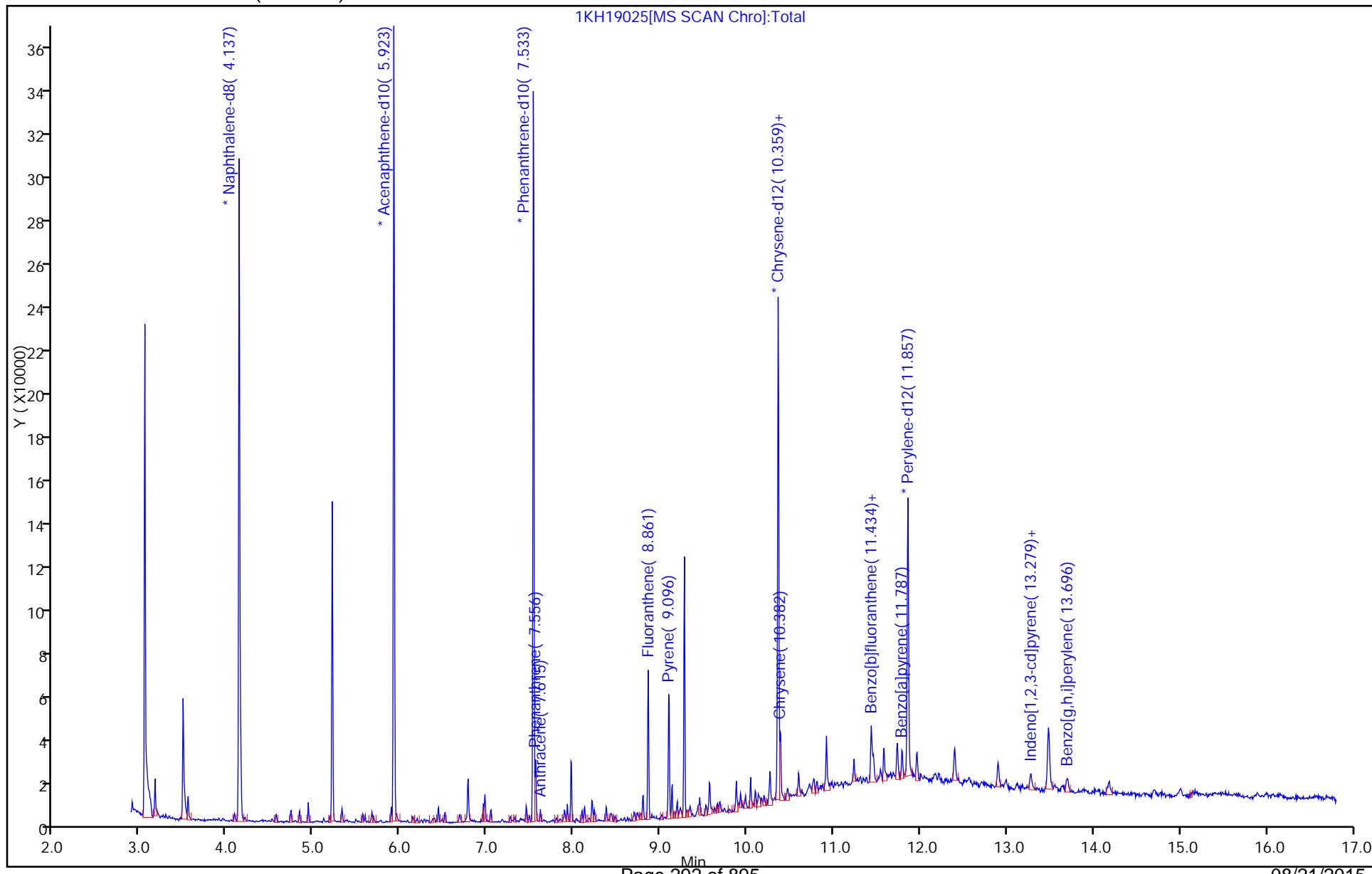
## TestAmerica Savannah

Data File: \\ChromNA\\Savannah\\ChromData\CMSK\\20150819-22399.b\\1KH19025.D  
Injection Date: 19-Aug-2015 21:38:30  
Lims ID: 680-115692-A-18-A  
Client ID: CV0511HHH-CS-24  
Injection Vol: 2.0 ul  
Method: 8270\_LLPAH\_CMSK  
Column: Restek RXi-5Sil MS ( 0.25 mm)

Instrument ID: CMSK  
Lab Sample ID: 680-115692-18  
Dil. Factor: 10.0000  
Limit Group: 8270D\_LL\_PAH

Operator ID: LIMS import  
Worklist Smp#: 25

ALS Bottle#: 25



TestAmerica Savannah

Data File: \\ChromNA\\Savannah\\ChromData\CMSK\\20150819-22399.b\\1KH19025.D

Injection Date: 19-Aug-2015 21:38:30

Instrument ID: CMSK

Lims ID: 680-115692-A-18-A

Lab Sample ID: 680-115692-18

Client ID: CV0511HHH-CS-24

Operator ID: LIMS import

ALS Bottle#: 25 Worklist Smp#: 25

Injection Vol: 2.0 ul

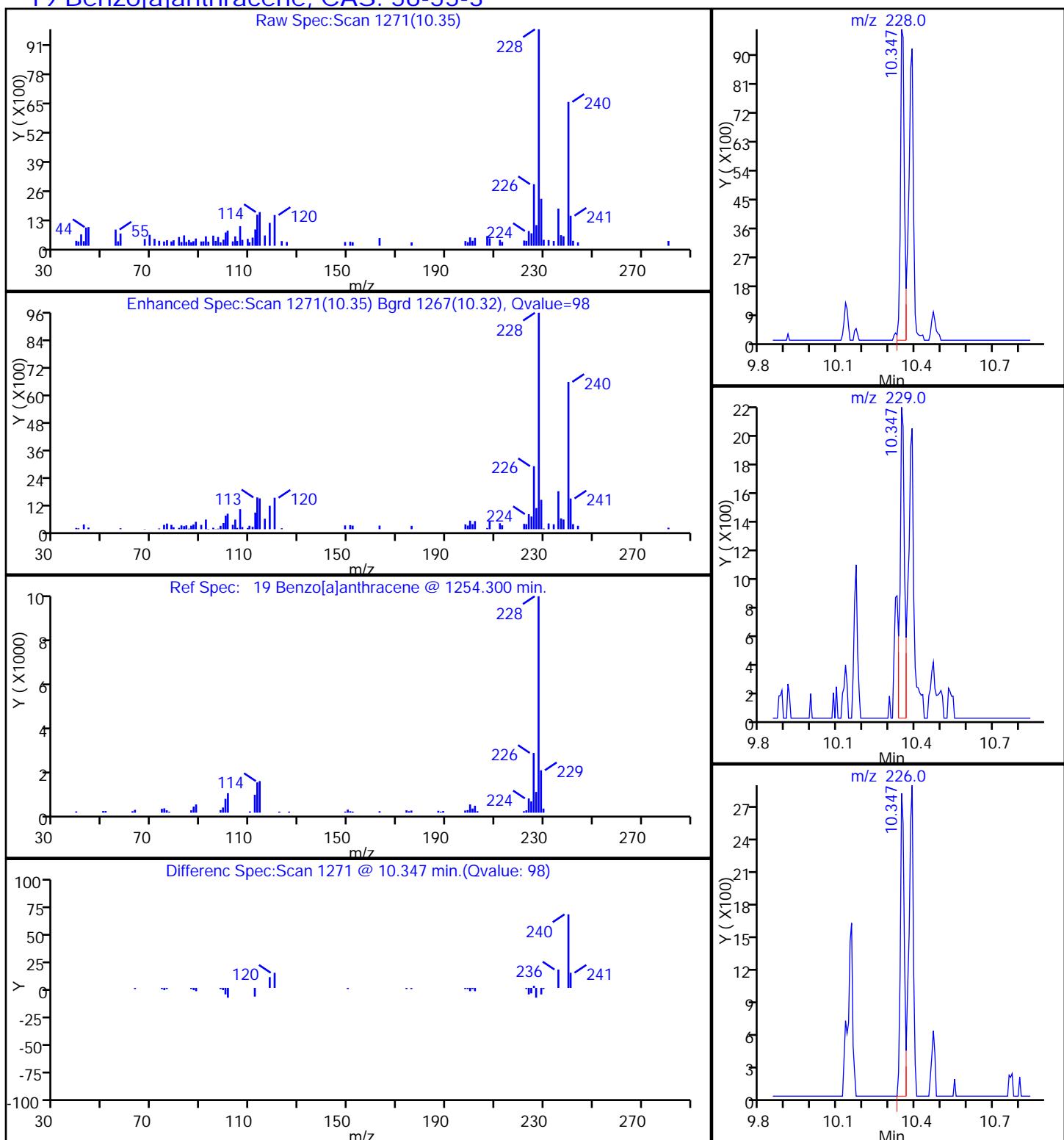
Dil. Factor: 10.0000

Method: 8270\_LLPAH\_CMSK

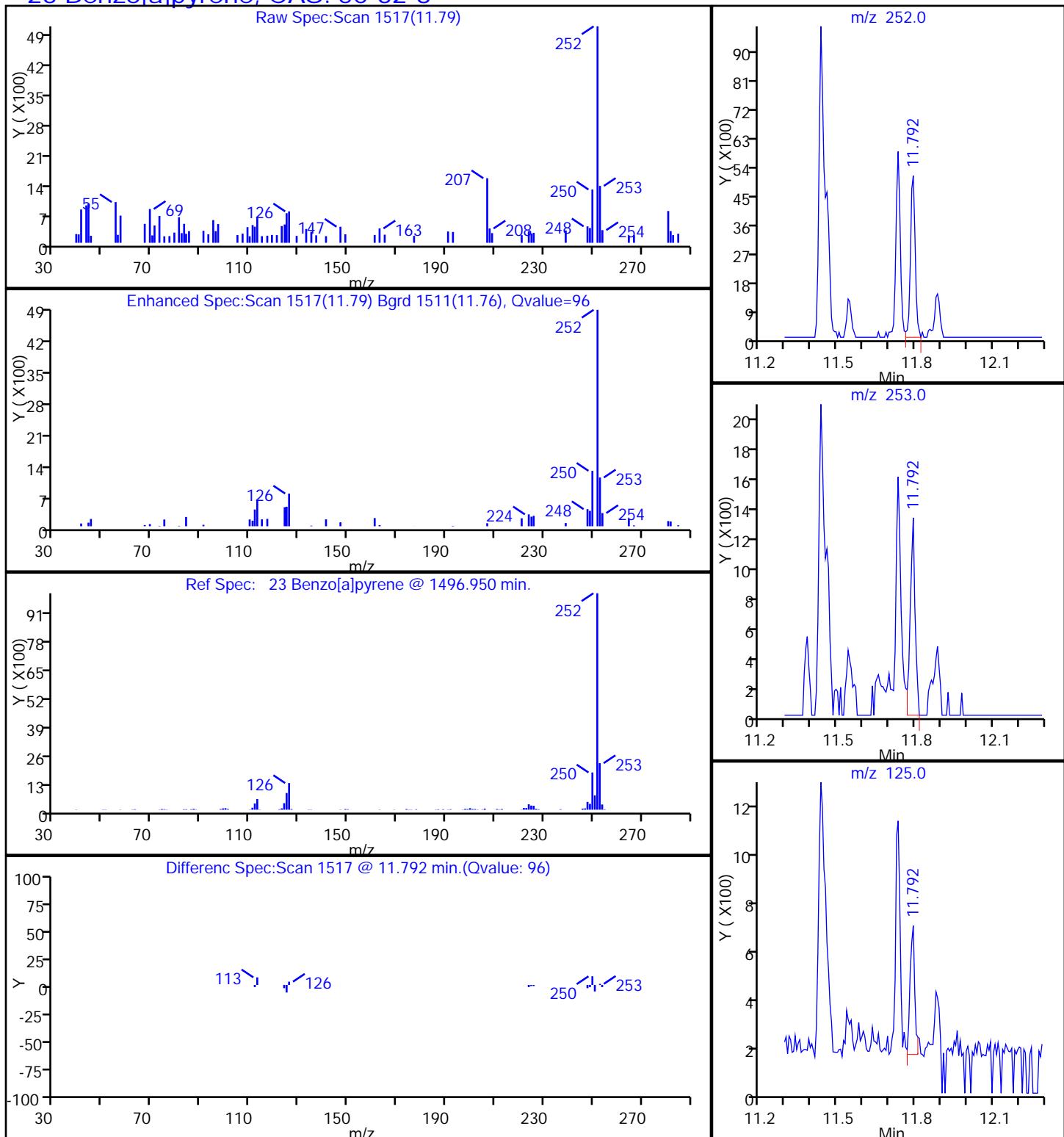
Limit Group: 8270D\_LL\_PAH

Column: Restek RXi-5Sil MS ( 0.25 mm)

Detector MS SCAN

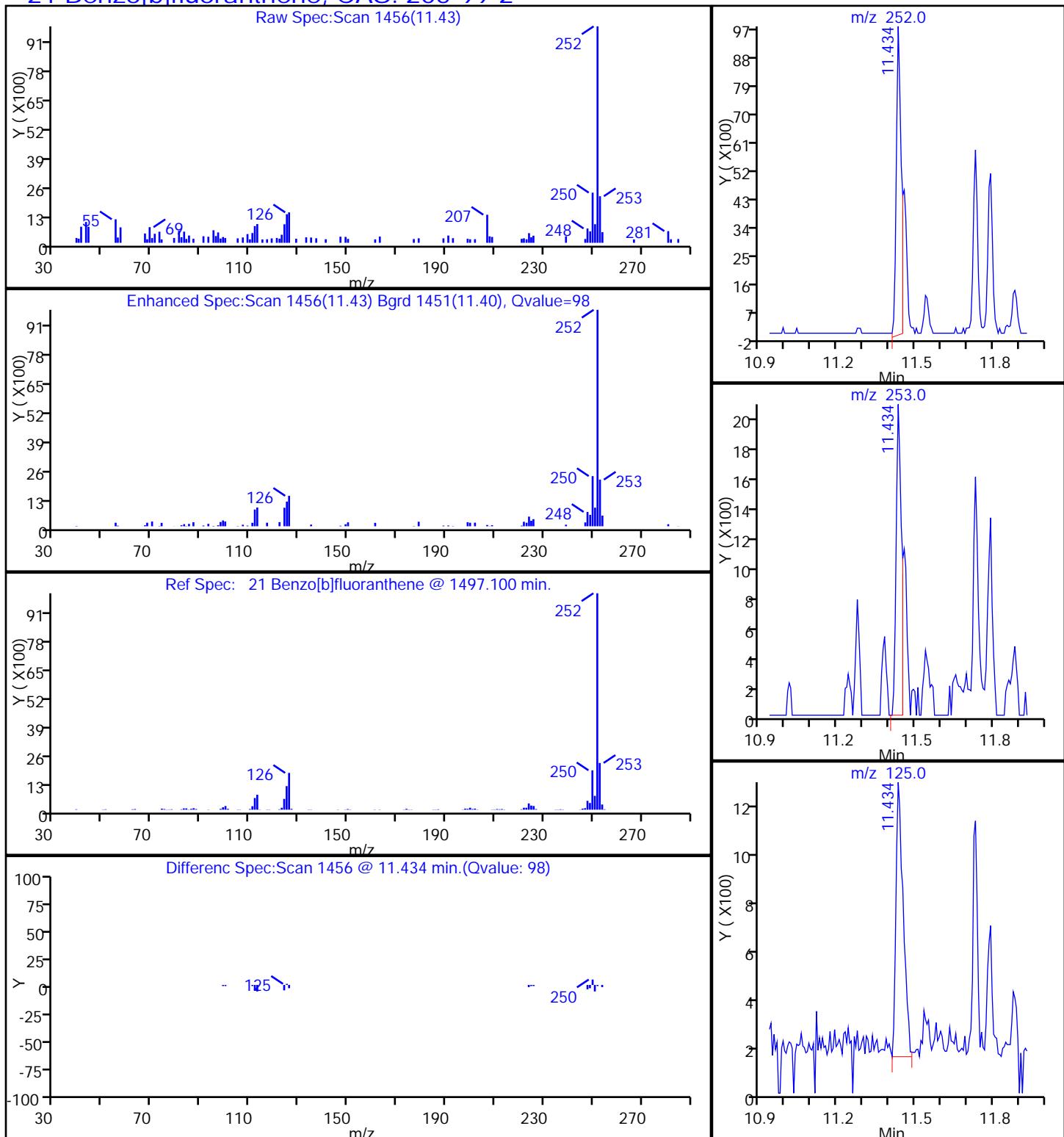
**19 Benzo[a]anthracene, CAS: 56-55-3**

TestAmerica Savannah  
 Data File: \\ChromNA\\Savannah\\ChromData\CMSK\\20150819-22399.b\\1KH19025.D  
 Injection Date: 19-Aug-2015 21:38:30 Instrument ID: CMSK  
 Lims ID: 680-115692-A-18-A Lab Sample ID: 680-115692-18  
 Client ID: CV0511HHH-CS-24  
 Operator ID: LIMS import ALS Bottle#: 25 Worklist Smp#: 25  
 Injection Vol: 2.0 ul Dil. Factor: 10.0000  
 Method: 8270\_LLPAH\_CMSK Limit Group: 8270D\_LL\_PAH  
 Column: Restek RXi-5Sil MS ( 0.25 mm) Detector: MS SCAN

**23 Benzo[a]pyrene, CAS: 50-32-8**

TestAmerica Savannah  
 Data File: \\ChromNA\\Savannah\\ChromData\CMSK\\20150819-22399.b\\1KH19025.D  
 Injection Date: 19-Aug-2015 21:38:30 Instrument ID: CMSK  
 Lims ID: 680-115692-A-18-A Lab Sample ID: 680-115692-18  
 Client ID: CV0511HHH-CS-24  
 Operator ID: LIMS import ALS Bottle#: 25 Worklist Smp#: 25  
 Injection Vol: 2.0 ul Dil. Factor: 10.0000  
 Method: 8270\_LLPAH\_CMSK Limit Group: 8270D\_LL\_PAH  
 Column: Restek RXi-5Sil MS ( 0.25 mm) Detector MS SCAN

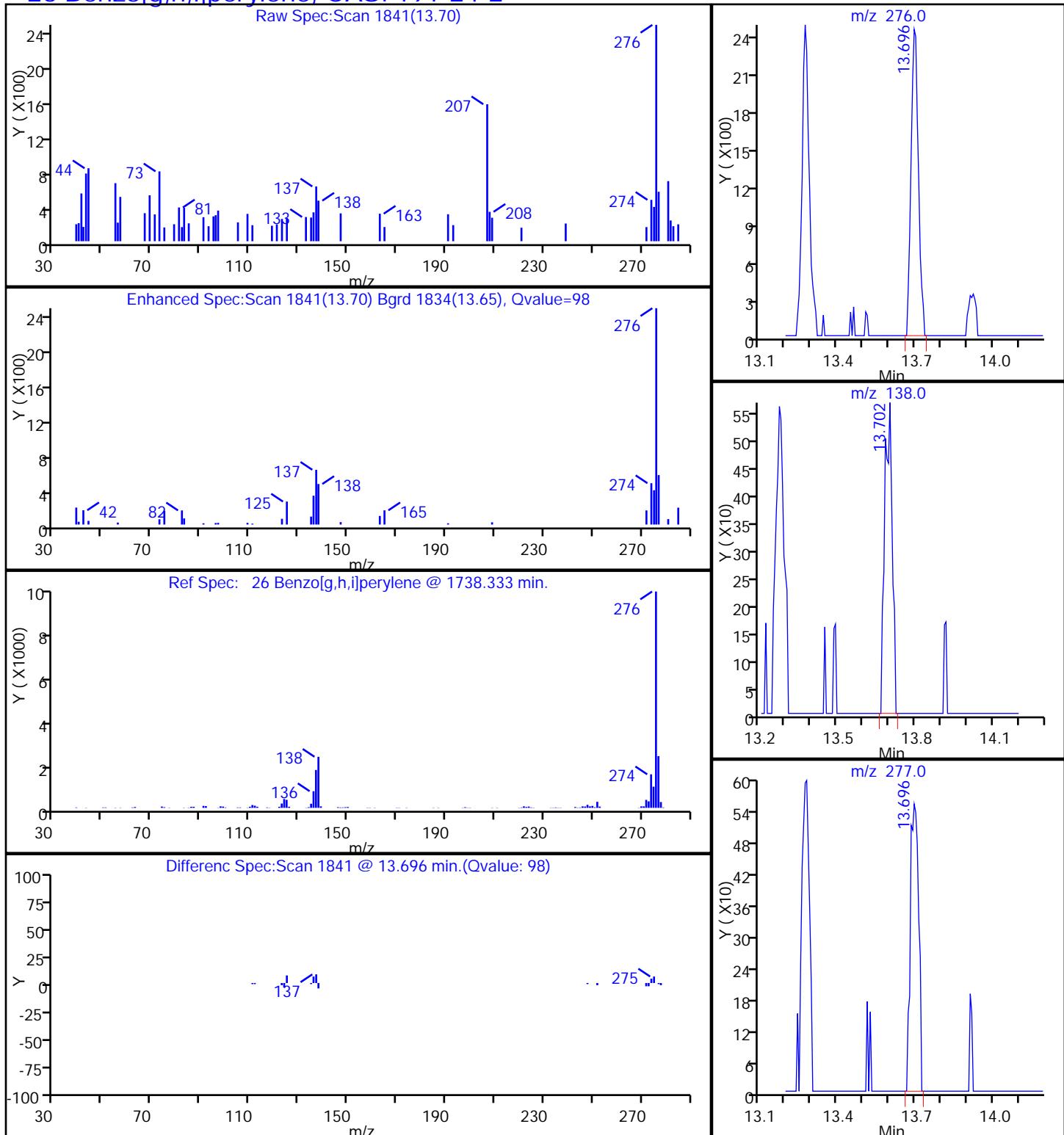
### 21 Benzo[b]fluoranthene, CAS: 205-99-2



## TestAmerica Savannah

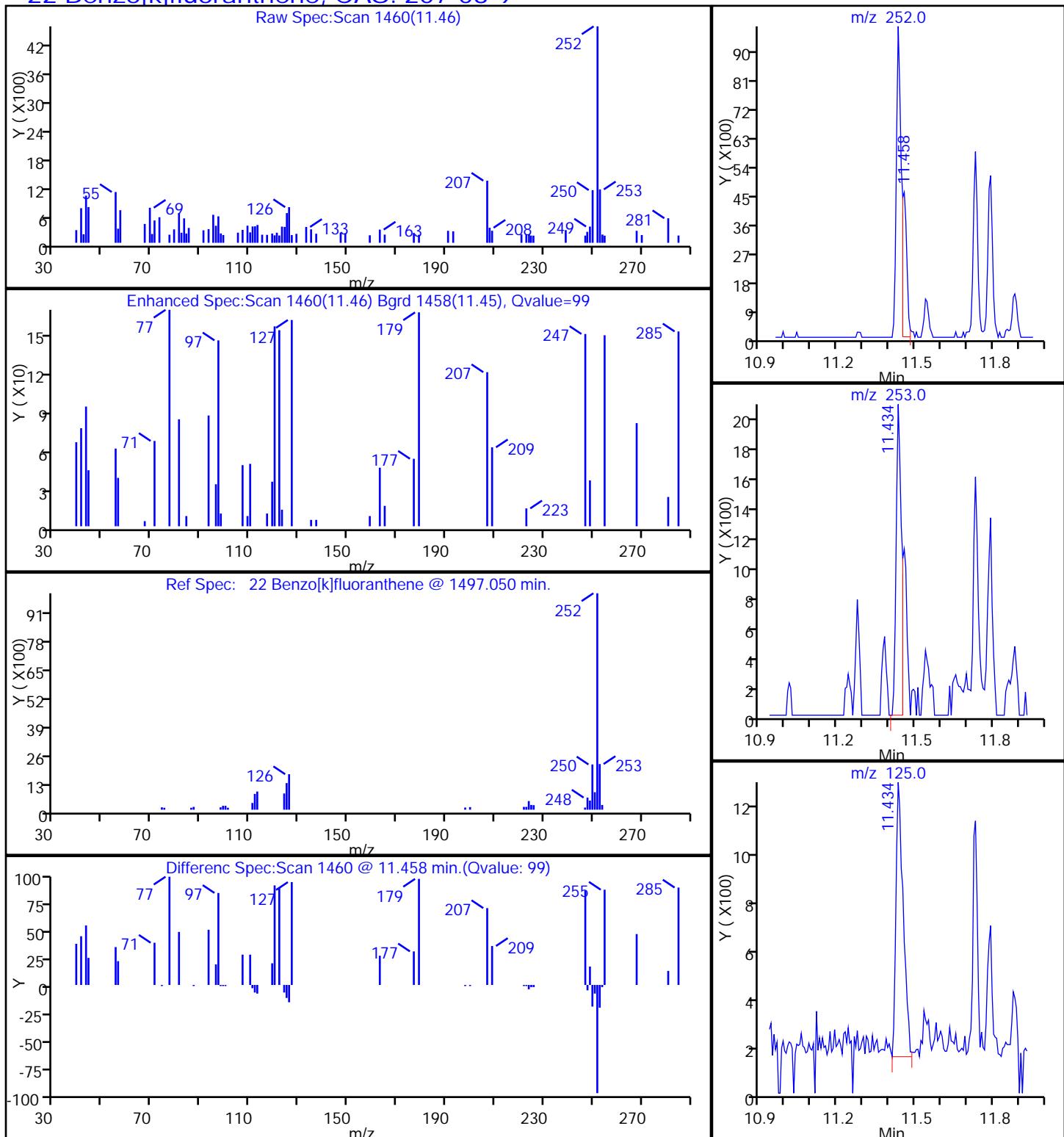
Data File: \\ChromNA\\Savannah\\ChromData\CMSK\\20150819-22399.b\\1KH19025.D  
 Injection Date: 19-Aug-2015 21:38:30 Instrument ID: CMSK  
 Lims ID: 680-115692-A-18-A Lab Sample ID: 680-115692-18  
 Client ID: CV0511HHH-CS-24  
 Operator ID: LIMS import ALS Bottle#: 25 Worklist Smp#: 25  
 Injection Vol: 2.0 ul Dil. Factor: 10.0000  
 Method: 8270\_LLPAH\_CMSK Limit Group: 8270D\_LL\_PAH  
 Column: Restek RXi-5Sil MS ( 0.25 mm) Detector: MS SCAN

## 26 Benzo[g,h,i]perylene, CAS: 191-24-2



TestAmerica Savannah  
 Data File: \\ChromNA\\Savannah\\ChromData\CMSK\\20150819-22399.b\\1KH19025.D  
 Injection Date: 19-Aug-2015 21:38:30 Instrument ID: CMSK  
 Lims ID: 680-115692-A-18-A Lab Sample ID: 680-115692-18  
 Client ID: CV0511HHH-CS-24  
 Operator ID: LIMS import ALS Bottle#: 25 Worklist Smp#: 25  
 Injection Vol: 2.0 ul Dil. Factor: 10.0000  
 Method: 8270\_LLPAH\_CMSK Limit Group: 8270D\_LL\_PAH  
 Column: Restek RXi-5Sil MS ( 0.25 mm) Detector MS SCAN

### 22 Benzo[k]fluoranthene, CAS: 207-08-9



TestAmerica Savannah

Data File: \\ChromNA\\Savannah\\ChromData\CMSK\\20150819-22399.b\\1KH19025.D

Injection Date: 19-Aug-2015 21:38:30

Instrument ID: CMSK

Lims ID: 680-115692-A-18-A

Lab Sample ID: 680-115692-18

Client ID: CV0511HHH-CS-24

Operator ID: LIMS import

ALS Bottle#: 25 Worklist Smp#: 25

Injection Vol: 2.0 ul

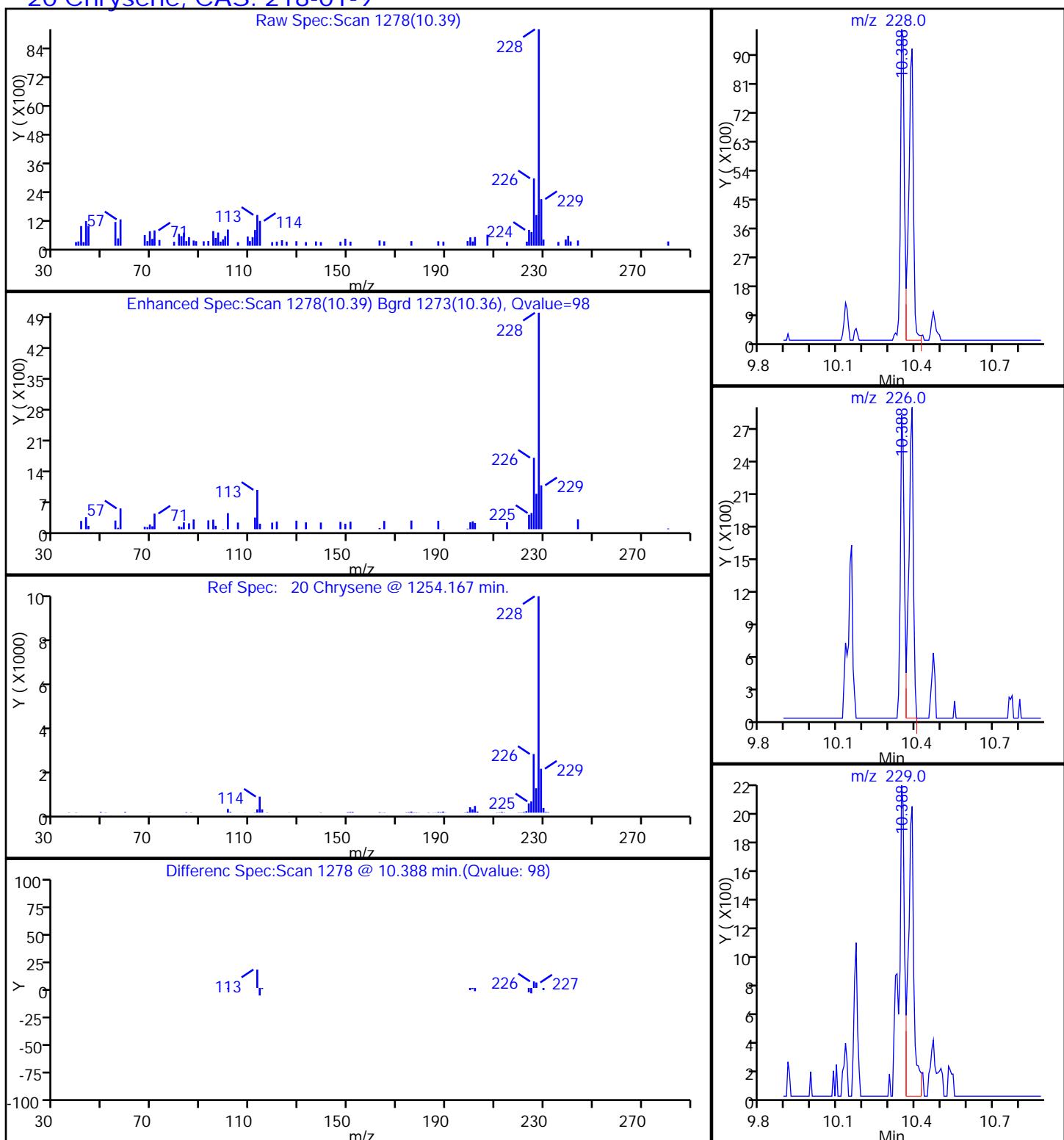
Dil. Factor: 10.0000

Method: 8270\_LLPAH\_CMSK

Limit Group: 8270D\_LL\_PAH

Column: Restek RXi-5Sil MS ( 0.25 mm)

Detector: MS SCAN

**20 Chrysene, CAS: 218-01-9**

TestAmerica Savannah

Data File: \\ChromNA\\Savannah\\ChromData\CMSK\\20150819-22399.b\\1KH19025.D

Injection Date: 19-Aug-2015 21:38:30

Instrument ID: CMSK

Lims ID: 680-115692-A-18-A

Lab Sample ID: 680-115692-18

Client ID: CV0511HHH-CS-24

Operator ID: LIMS import

ALS Bottle#: 25 Worklist Smp#: 25

Injection Vol: 2.0 ul

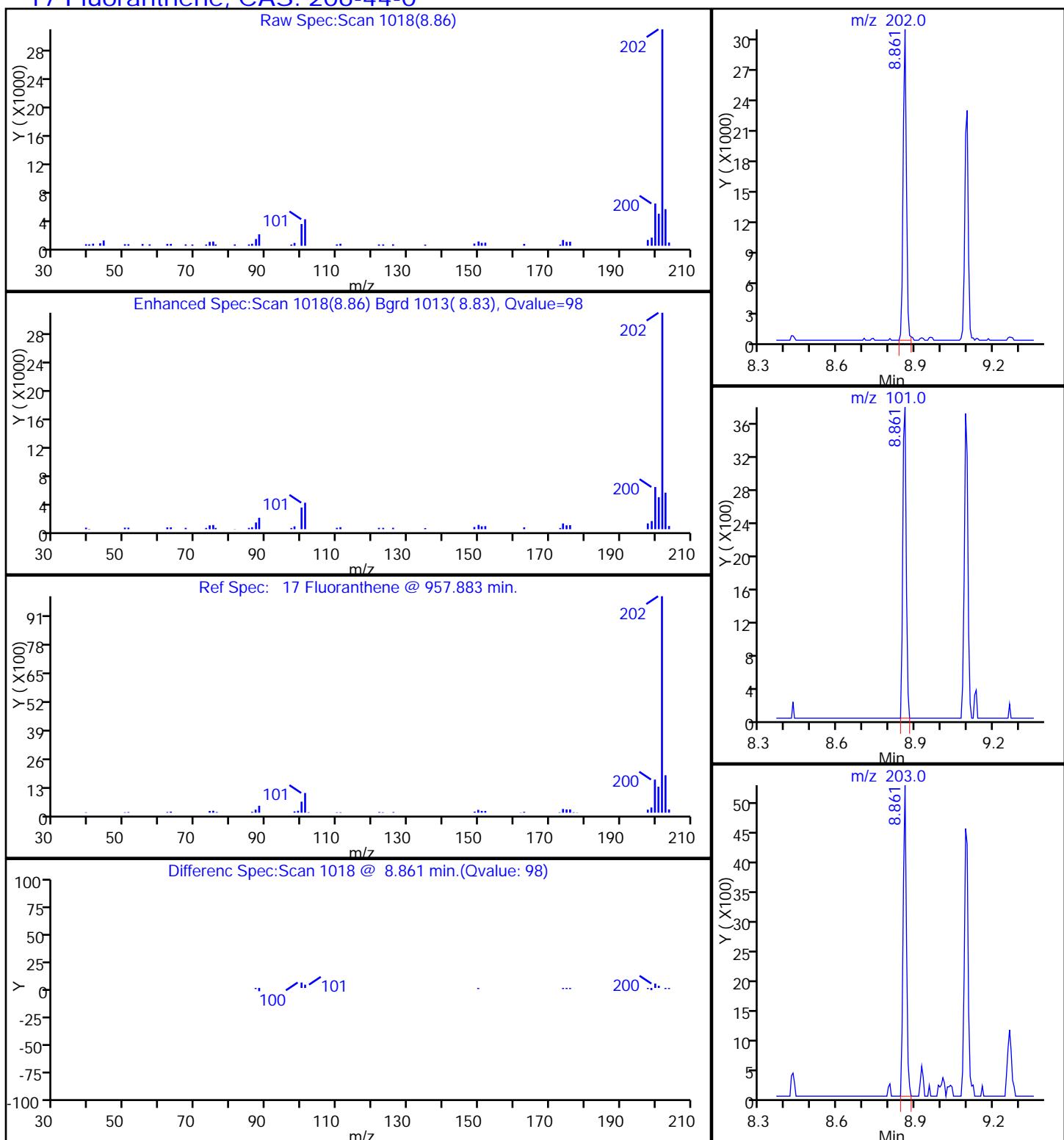
Dil. Factor: 10.0000

Method: 8270\_LLPAH\_CMSK

Limit Group: 8270D\_LL\_PAH

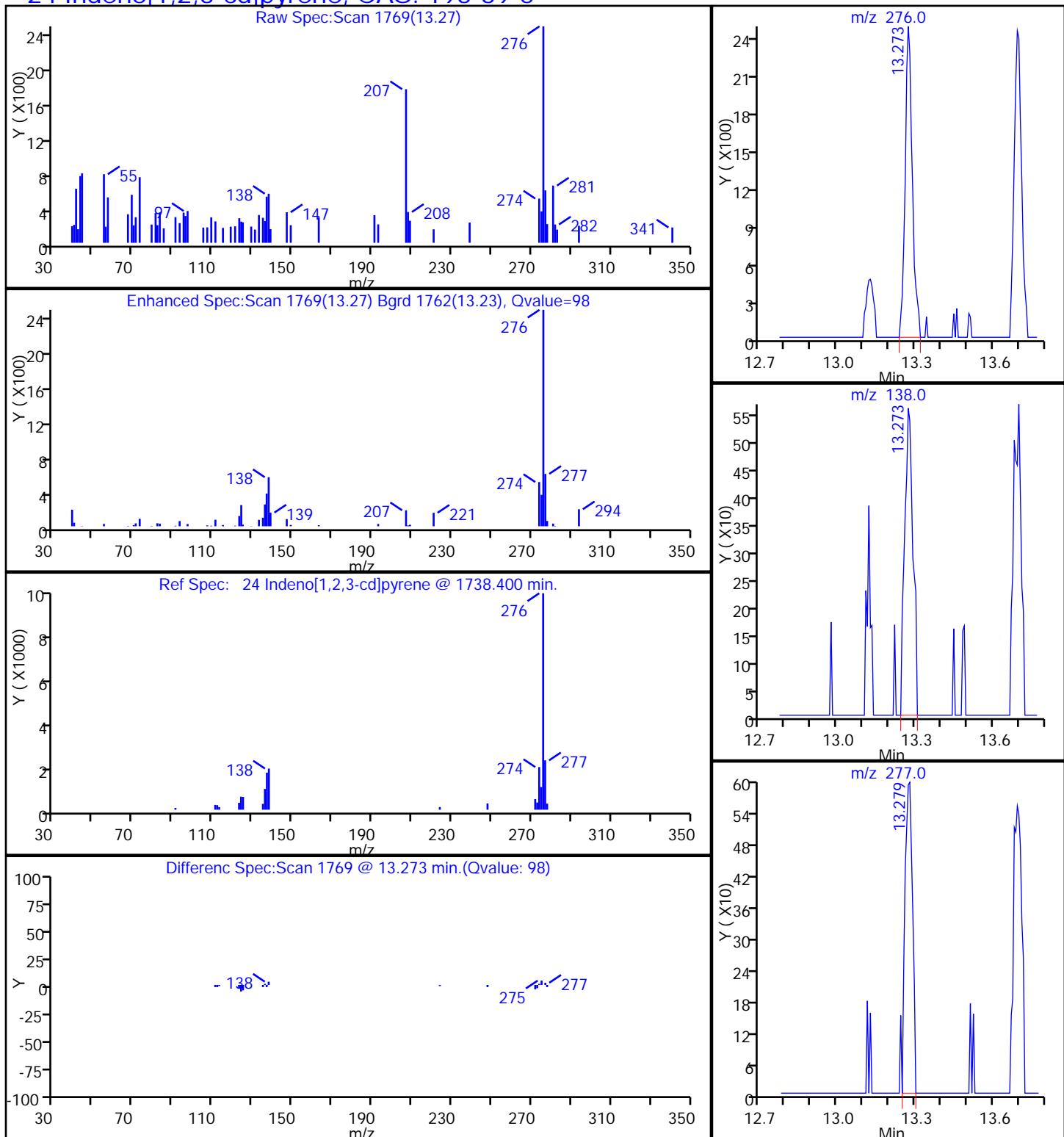
Column: Restek RXi-5Sil MS ( 0.25 mm)

Detector: MS SCAN

**17 Fluoranthene, CAS: 206-44-0**

TestAmerica Savannah  
 Data File: \\ChromNA\\Savannah\\ChromData\CMSK\\20150819-22399.b\\1KH19025.D  
 Injection Date: 19-Aug-2015 21:38:30 Instrument ID: CMSK  
 Lims ID: 680-115692-A-18-A Lab Sample ID: 680-115692-18  
 Client ID: CV0511HHH-CS-24  
 Operator ID: LIMS import ALS Bottle#: 25 Worklist Smp#: 25  
 Injection Vol: 2.0 ul Dil. Factor: 10.0000  
 Method: 8270\_LLPAH\_CMSK Limit Group: 8270D\_LL\_PAH  
 Column: Restek RXi-5Sil MS ( 0.25 mm) Detector MS SCAN

### 24 Indeno[1,2,3-cd]pyrene, CAS: 193-39-5



TestAmerica Savannah

Data File: \\ChromNA\\Savannah\\ChromData\CMSK\\20150819-22399.b\\1KH19025.D

Injection Date: 19-Aug-2015 21:38:30

Instrument ID: CMSK

Lims ID: 680-115692-A-18-A

Lab Sample ID: 680-115692-18

Client ID: CV0511HHH-CS-24

Operator ID: LIMS import

ALS Bottle#: 25 Worklist Smp#: 25

Injection Vol: 2.0 ul

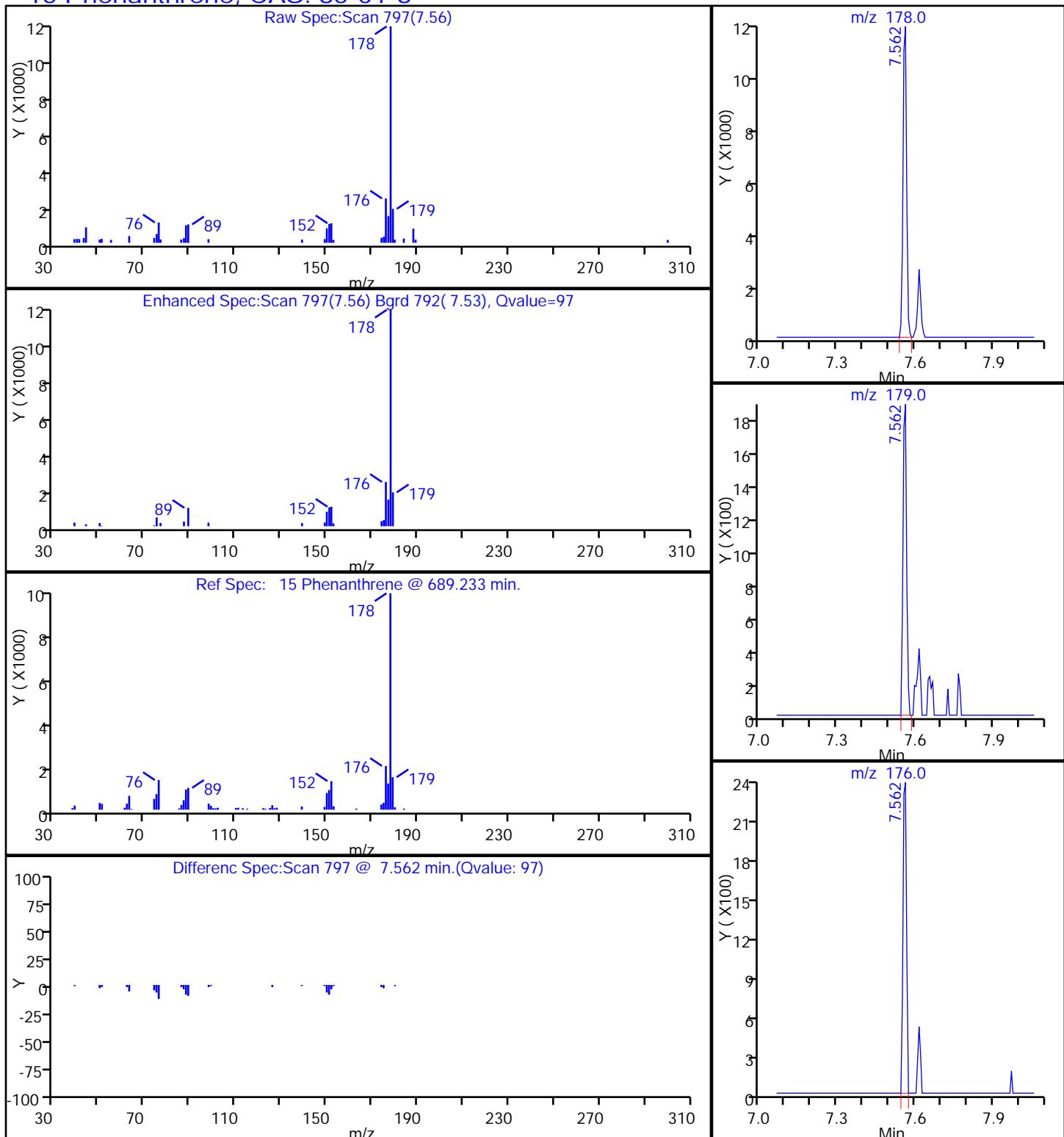
Dil. Factor: 10.0000

Method: 8270\_LLPAH\_CMSK

Limit Group: 8270D\_LL\_PAH

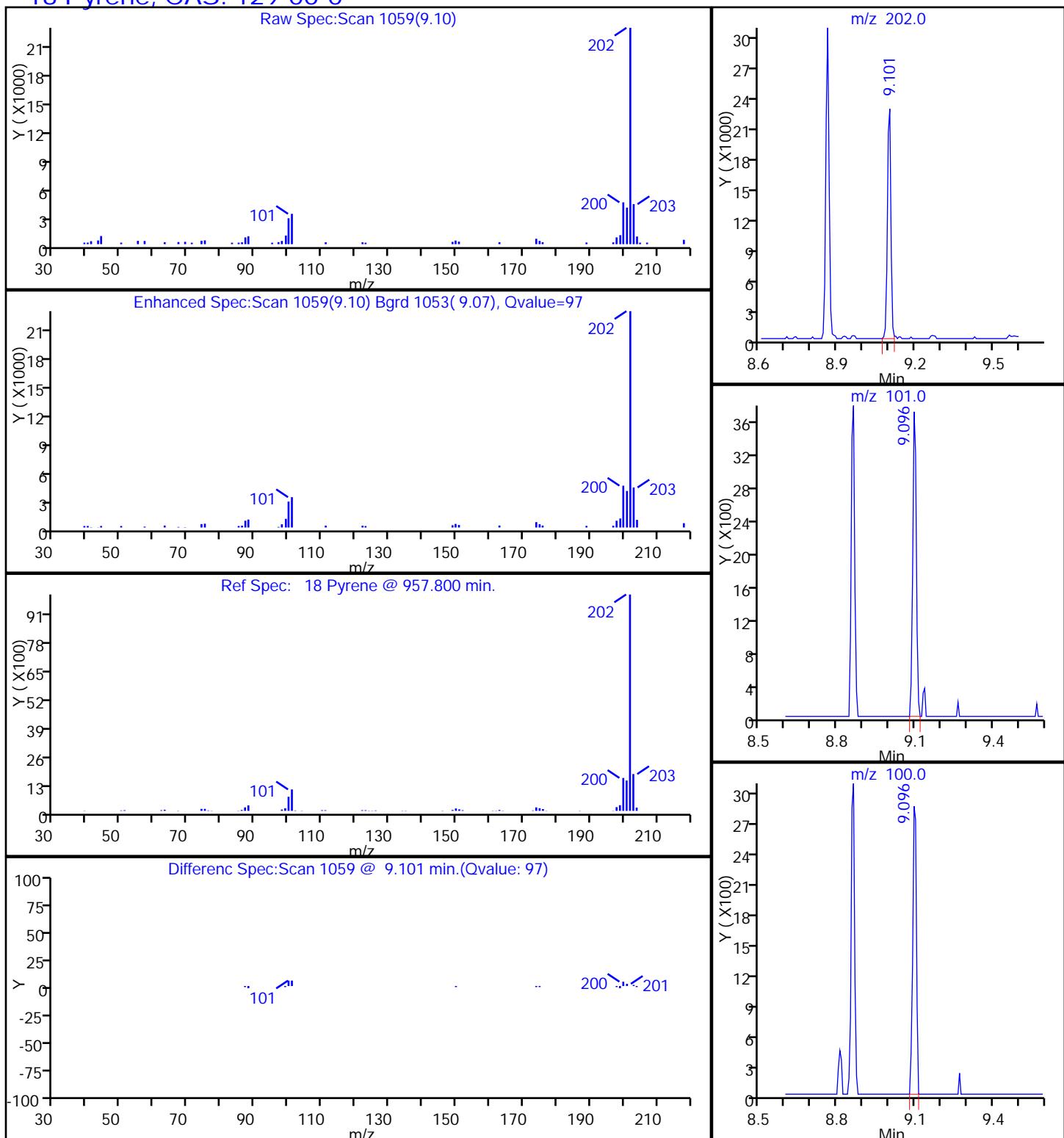
Column: Restek RXi-5Sil MS ( 0.25 mm)

Detector: MS SCAN

**15 Phenanthrene, CAS: 85-01-8**

TestAmerica Savannah  
 Data File: \\ChromNA\\Savannah\\ChromData\CMSK\\20150819-22399.b\\1KH19025.D  
 Injection Date: 19-Aug-2015 21:38:30 Instrument ID: CMSK  
 Lims ID: 680-115692-A-18-A Lab Sample ID: 680-115692-18  
 Client ID: CV0511HHH-CS-24  
 Operator ID: LIMS import ALS Bottle#: 25 Worklist Smp#: 25  
 Injection Vol: 2.0 ul Dil. Factor: 10.0000  
 Method: 8270\_LLPAH\_CMSK Limit Group: 8270D\_LL\_PAH  
 Column: Restek RXi-5Sil MS ( 0.25 mm) Detector MS SCAN

## 18 Pyrene, CAS: 129-00-0



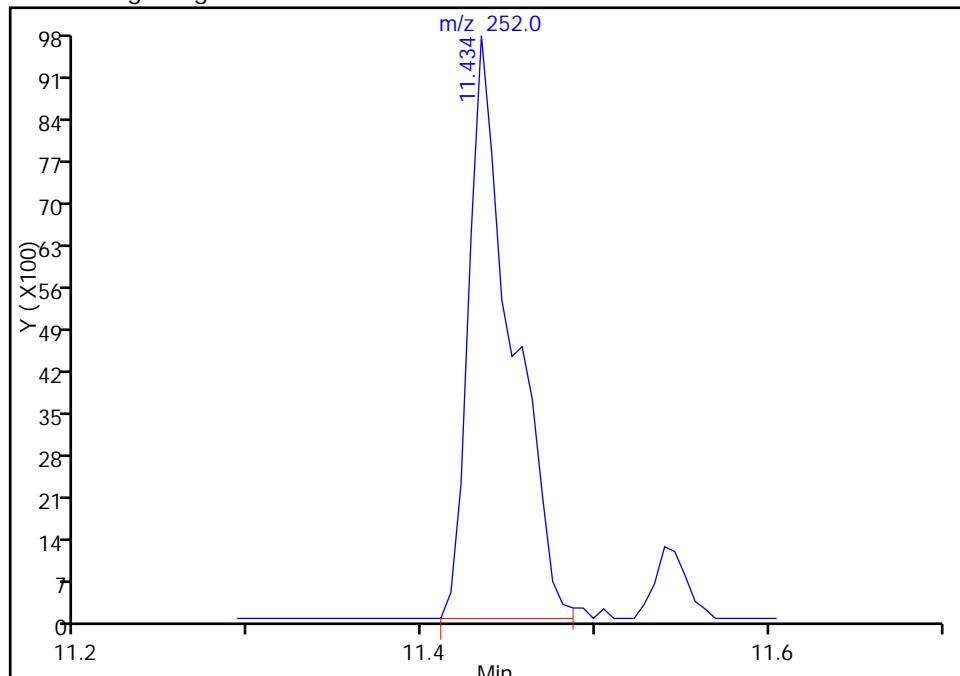
## TestAmerica Savannah

Data File: \\ChromNA\\Savannah\\ChromData\CMSK\\20150819-22399.b\\1KH19025.D  
 Injection Date: 19-Aug-2015 21:38:30 Instrument ID: CMSK  
 Lims ID: 680-115692-A-18-A Lab Sample ID: 680-115692-18  
 Client ID: CV0511HHH-CS-24  
 Operator ID: LIMS import ALS Bottle#: 25 Worklist Smp#: 25  
 Injection Vol: 2.0 ul Dil. Factor: 10.0000  
 Method: 8270\_LLPAH\_CMSK Limit Group: 8270D\_LL\_PAH  
 Column: Restek RXi-5Sil MS ( 0.25 mm) Detector: MS SCAN

## 21 Benzo[b]fluoranthene, CAS: 205-99-2

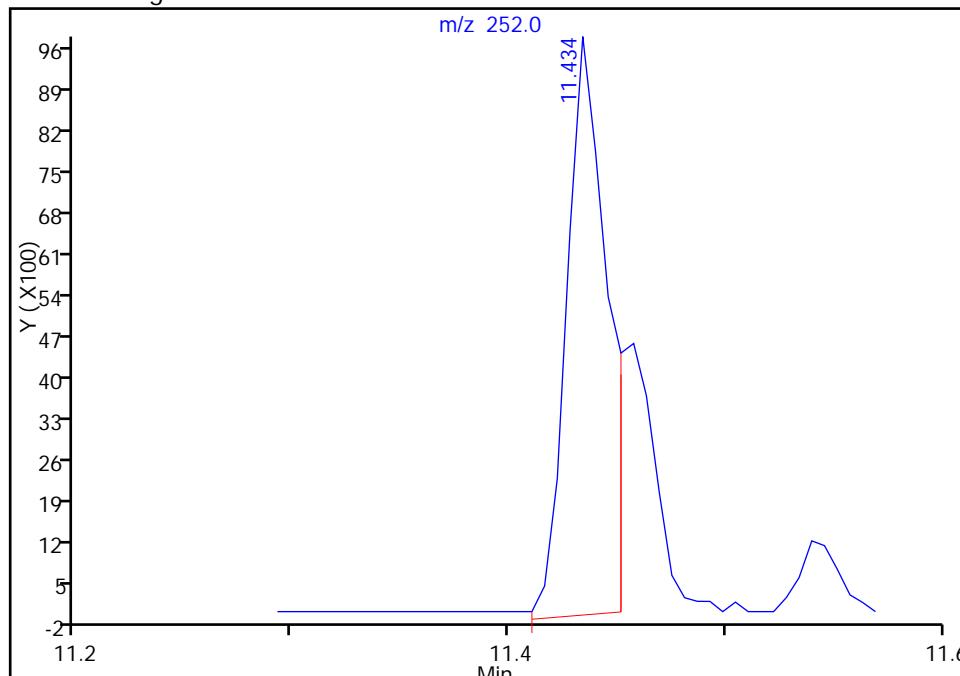
RT: 11.43  
 Area: 16827  
 Amount: 0.603166  
 Amount Units: ug/ml

## Processing Integration Results



RT: 11.43  
 Area: 13041  
 Amount: 0.467457  
 Amount Units: ug/ml

## Manual Integration Results



Reviewer: moorer, 20-Aug-2015 11:19:51

Audit Action: Manually Integrated

Audit Reason: Split Peak

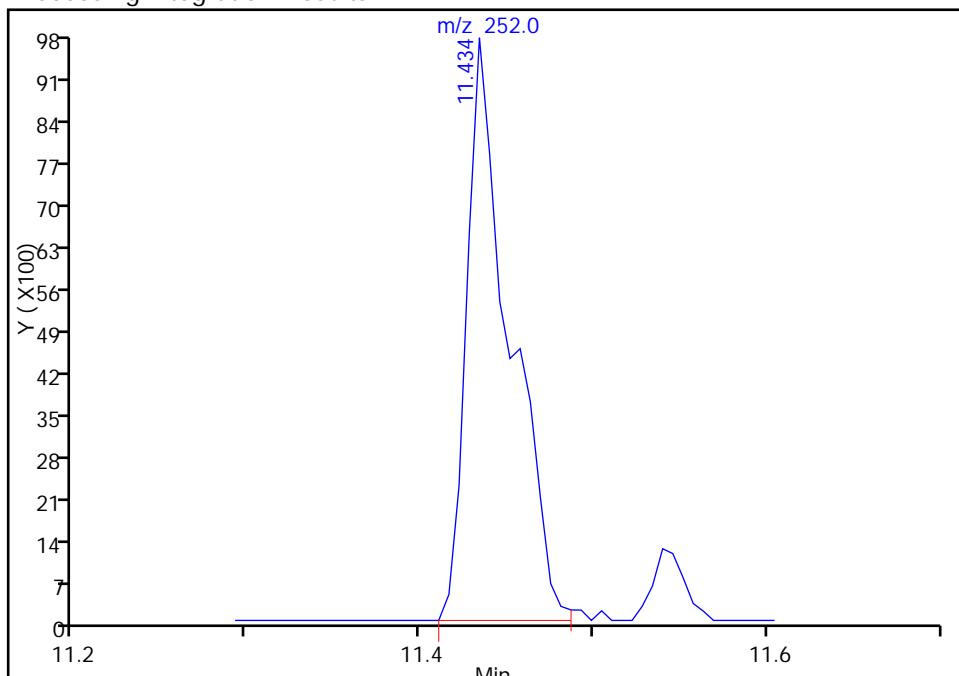
## TestAmerica Savannah

Data File: \\ChromNA\\Savannah\\ChromData\\CMSK\\20150819-22399.b\\1KH19025.D  
 Injection Date: 19-Aug-2015 21:38:30 Instrument ID: CMSK  
 Lims ID: 680-115692-A-18-A Lab Sample ID: 680-115692-18  
 Client ID: CV0511HHH-CS-24  
 Operator ID: LIMS import ALS Bottle#: 25 Worklist Smp#: 25  
 Injection Vol: 2.0 ul Dil. Factor: 10.0000  
 Method: 8270\_LLPAH\_CMSK Limit Group: 8270D\_LL\_PAH  
 Column: Restek RXi-5Sil MS ( 0.25 mm) Detector: MS SCAN

## 22 Benzo[k]fluoranthene, CAS: 207-08-9

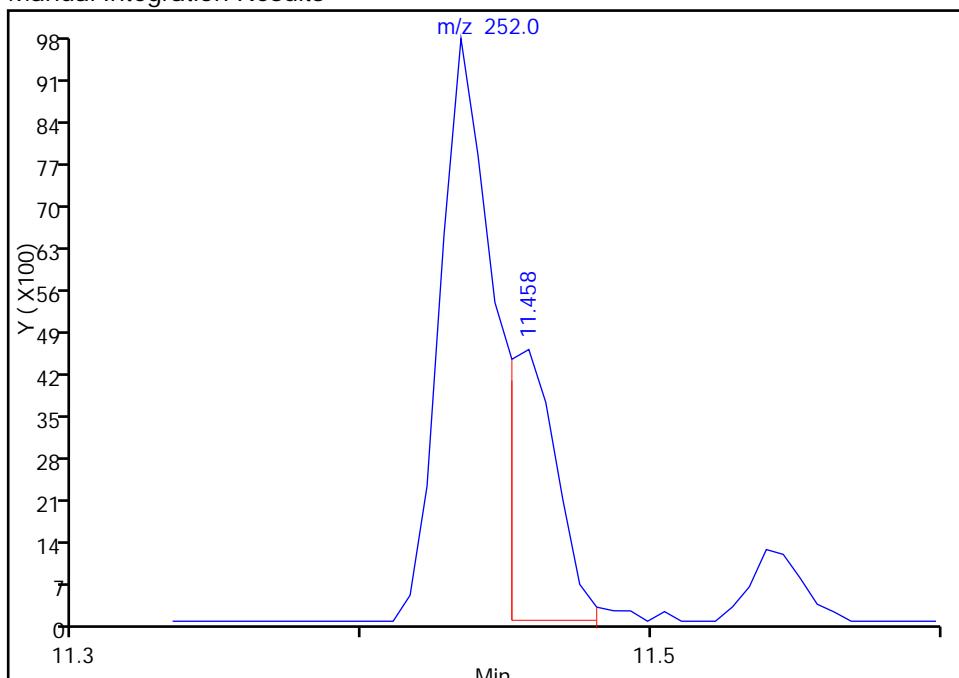
RT: 11.43  
 Area: 16827  
 Amount: 0.570890  
 Amount Units: ug/ml

## Processing Integration Results



RT: 11.46  
 Area: 5428  
 Amount: 0.184156  
 Amount Units: ug/ml

## Manual Integration Results



Reviewer: moorer, 20-Aug-2015 11:19:51

Audit Action: Manually Integrated

Audit Reason: Split Peak

FORM I  
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Savannah Job No.: 680-115692-1  
 SDG No.: 680-115692-01  
 Client Sample ID: CV0511BBB-CS-6 Lab Sample ID: 680-115692-19  
 Matrix: Solid Lab File ID: 1DF18005.D  
 Analysis Method: 8270D\_LL\_PAH Date Collected: 08/11/2015 09:30  
 Extract. Method: 3546 Date Extracted: 08/17/2015 10:44  
 Sample wt/vol: 30.12(g) Date Analyzed: 08/18/2015 14:45  
 Con. Extract Vol.: 1(mL) Dilution Factor: 1  
 Injection Volume: 2(uL) Level: (low/med) Low  
 % Moisture: 4.1 GPC Cleanup: (Y/N) N  
 Analysis Batch No.: 396705 Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	6.6	J	7.0	3.4
208-96-8	Acenaphthylene	7.0	U	7.0	3.4
120-12-7	Anthracene	9.5		7.0	3.4
56-55-3	Benzo[a]anthracene	38		7.0	3.4
50-32-8	Benzo[a]pyrene	35		7.0	1.2
205-99-2	Benzo[b]fluoranthene	37		7.0	3.4
191-24-2	Benzo[g,h,i]perylene	23		7.0	3.4
207-08-9	Benzo[k]fluoranthene	22		7.0	2.1
218-01-9	Chrysene	39		7.0	3.4
53-70-3	Dibenz(a,h)anthracene	6.9	J	7.0	3.4
206-44-0	Fluoranthene	74		7.0	3.4
86-73-7	Fluorene	5.2	J	7.0	3.4
193-39-5	Indeno[1,2,3-cd]pyrene	25		7.0	3.4
90-12-0	1-Methylnaphthalene	7.0	U	7.0	3.2
91-57-6	2-Methylnaphthalene	7.0	U	7.0	3.4
91-20-3	Naphthalene	7.0	U	7.0	3.4
85-01-8	Phenanthrene	60		7.0	2.5
129-00-0	Pyrene	79		7.0	3.4

CAS NO.	SURROGATE	%REC	Q	LIMITS
84-15-1	o-Terphenyl	119		36-131

TestAmerica Savannah  
Target Compound Quantitation Report

Data File: \\ChromNA\Savannah\ChromData\CMSD\20150818-22356.b\1DF18005.D  
 Lims ID: 680-115692-A-19-A Lab Sample ID: 680-115692-19  
 Client ID: CV0511BBB-CS-6  
 Sample Type: Client  
 Inject. Date: 18-Aug-2015 14:45:30 ALS Bottle#: 5 Worklist Smp#: 5  
 Injection Vol: 2.0 ul Dil. Factor: 1.0000  
 Sample Info: 115692-19  
 Misc. Info.: 680-0022356-005  
 Operator ID: LIMS import Instrument ID: CMSD  
 Method: \\ChromNA\Savannah\ChromData\CMSD\20150818-22356.b\8270\_New\_LLPAH\_CMSD.m  
 Limit Group: 8270D\_LL\_PAH  
 Last Update: 19-Aug-2015 12:01:37 Calib Date: 13-Aug-2015 21:10:30  
 Integrator: RTE ID Type: Deconvolution ID  
 Quant Method: Internal Standard Quant By: Initial Calibration  
 Last ICAL File: \\ChromNA\Savannah\ChromData\CMSD\20150813-22241.b\1DF13008.D  
 Column 1 : Restek RXi-5Sil MS ( 0.25 mm) Det: MS SCAN  
 Process Host: XAWRK003

First Level Reviewer: millsj Date: 19-Aug-2015 11:58:02

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/ml	Flags
* 1 Naphthalene-d8	136	5.844	5.848	-0.004	99	486074	2.00	
* 2 Acenaphthene-d10	164	7.265	7.263	0.002	96	263338	2.00	
* 3 Phenanthrene-d10	188	8.445	8.444	0.001	98	453102	2.00	
* 4 Chrysene-d12	240	10.555	10.570	-0.015	99	368583	2.00	
* 5 Perylene-d12	264	11.751	11.787	-0.036	98	370176	2.00	
\$ 6 o-Terphenyl	230	8.760	8.759	0.001	85	180728	2.38	
12 Acenaphthene	153	7.286	7.290	-0.004	93	30038	0.1905	
14 Fluorene	166	7.703	7.701	0.002	91	25154	0.1493	
15 Phenanthrene	178	8.461	8.465	-0.004	98	394354	1.73	
16 Anthracene	178	8.499	8.503	-0.004	96	47229	0.2746	
17 Fluoranthene	202	9.401	9.400	0.001	97	511308	2.14	
18 Pyrene	202	9.583	9.581	0.002	97	421398	2.27	
19 Benzo[a]anthracene	228	10.539	10.554	-0.015	97	188719	1.10	
20 Chrysene	228	10.571	10.591	-0.020	97	199901	1.14	
21 Benzo[b]fluoranthene	252	11.409	11.440	-0.031	97	237645	1.07	M
22 Benzo[k]fluoranthene	252	11.420	11.456	-0.036	98	133696	0.6237	M
23 Benzo[a]pyrene	252	11.692	11.723	-0.031	95	177324	1.01	
24 Indeno[1,2,3-cd]pyrene	276	12.729	12.759	-0.030	95	116500	0.7336	
25 Dibenz(a,h)anthracene	278	12.739	12.765	-0.026	38	29212	0.1993	
26 Benzo[g,h,i]perylene	276	13.012	13.037	-0.025	93	110482	0.6662	

### QC Flag Legend

#### Review Flags

M - Manually Integrated

#### Reagents:

SM-LLISTD\_00128

Amount Added: 10.00

Units: uL

Run Reagent

Report Date: 19-Aug-2015 12:01:39

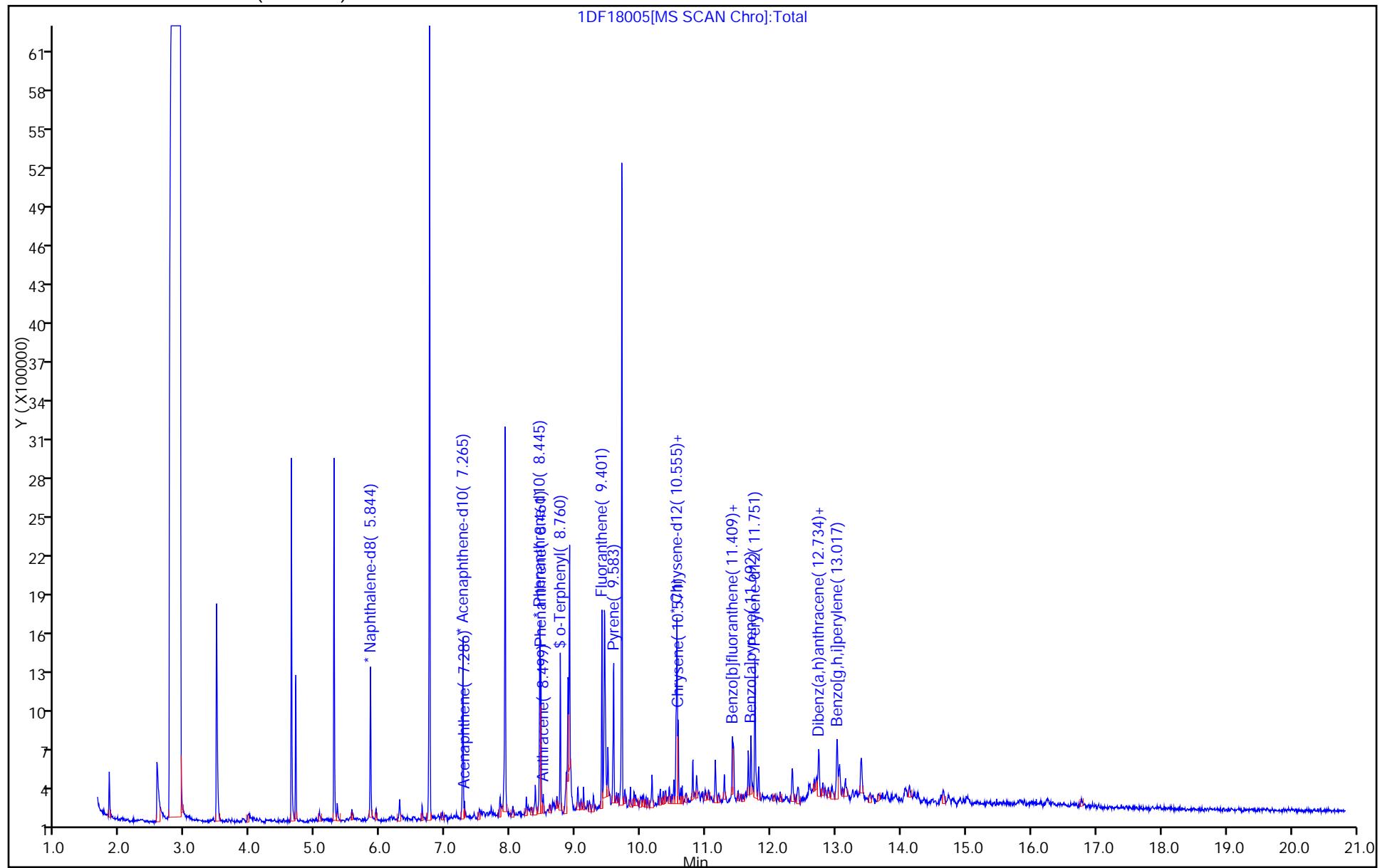
Chrom Revision: 2.2 23-Jul-2015 08:26:08

## TestAmerica Savannah

Data File: \\ChromNA\\Savannah\\ChromData\CMSD\\20150818-22356.b\\1DF18005.D  
Injection Date: 18-Aug-2015 14:45:30 Instrument ID: CMSD  
Lims ID: 680-115692-A-19-A Lab Sample ID: 680-115692-19  
Client ID: CV0511BBB-CS-6  
Injection Vol: 2.0 ul Dil. Factor: 1.0000  
Method: 8270\_New\_LLPAH\_CMSD Limit Group: 8270D\_LL\_PAH  
Column: Restek RXi-5Sil MS ( 0.25 mm)

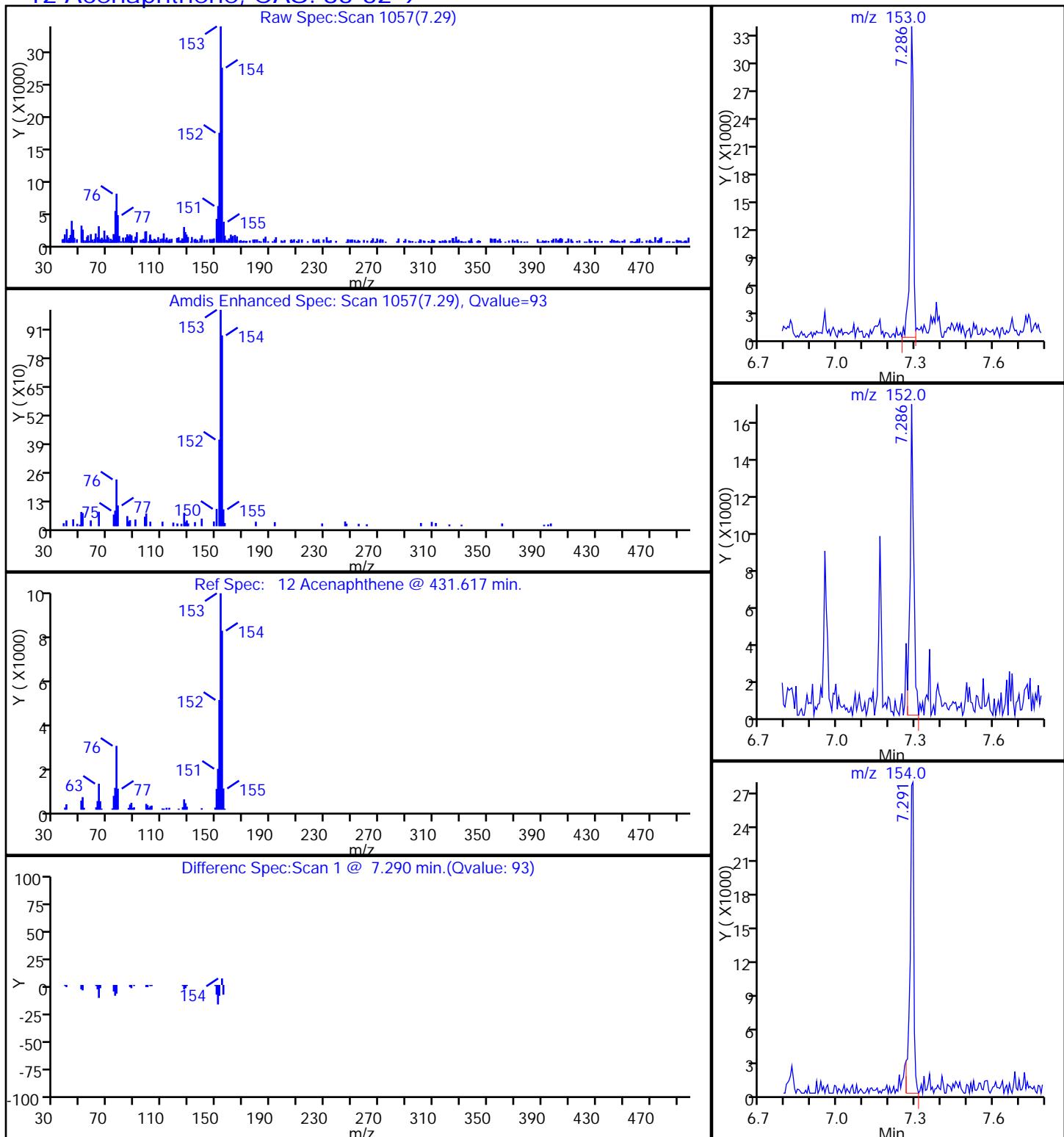
Operator ID: LIMS import  
Worklist Smp#: 5

ALS Bottle#: 5



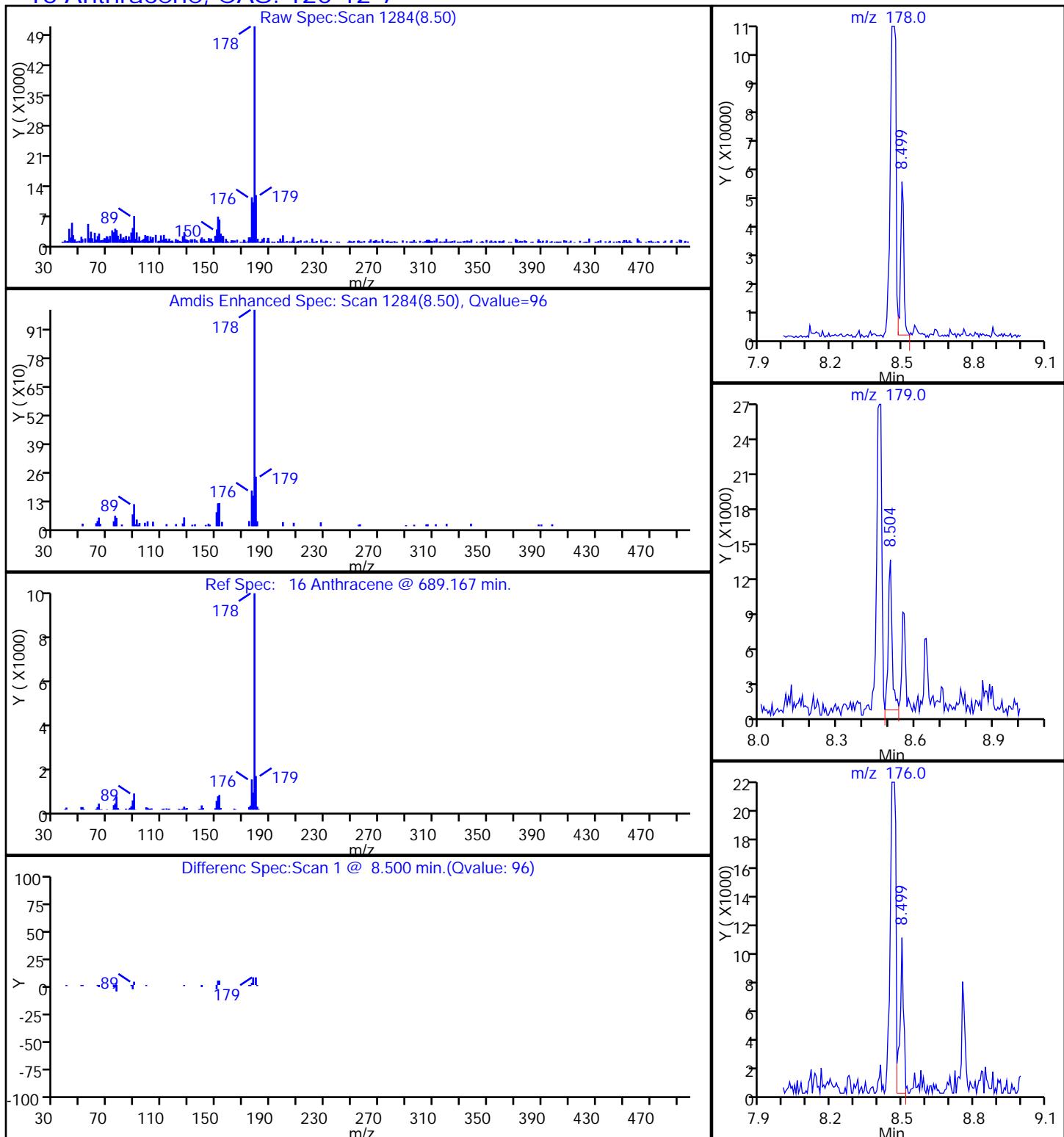
TestAmerica Savannah  
 Data File: \\ChromNA\\Savannah\\ChromData\\CMSD\\20150818-22356.b\\1DF18005.D  
 Injection Date: 18-Aug-2015 14:45:30 Instrument ID: CMSD  
 Lims ID: 680-115692-A-19-A Lab Sample ID: 680-115692-19  
 Client ID: CV0511BBB-CS-6  
 Operator ID: LIMS import ALS Bottle#: 5 Worklist Smp#: 5  
 Injection Vol: 2.0 ul Dil. Factor: 1.0000  
 Method: 8270\_New\_LLPAH\_CMSD Limit Group: 8270D\_LL\_PAH  
 Column: Restek RXi-5Sil MS ( 0.25 mm) Detector MS SCAN

## 12 Acenaphthene, CAS: 83-32-9



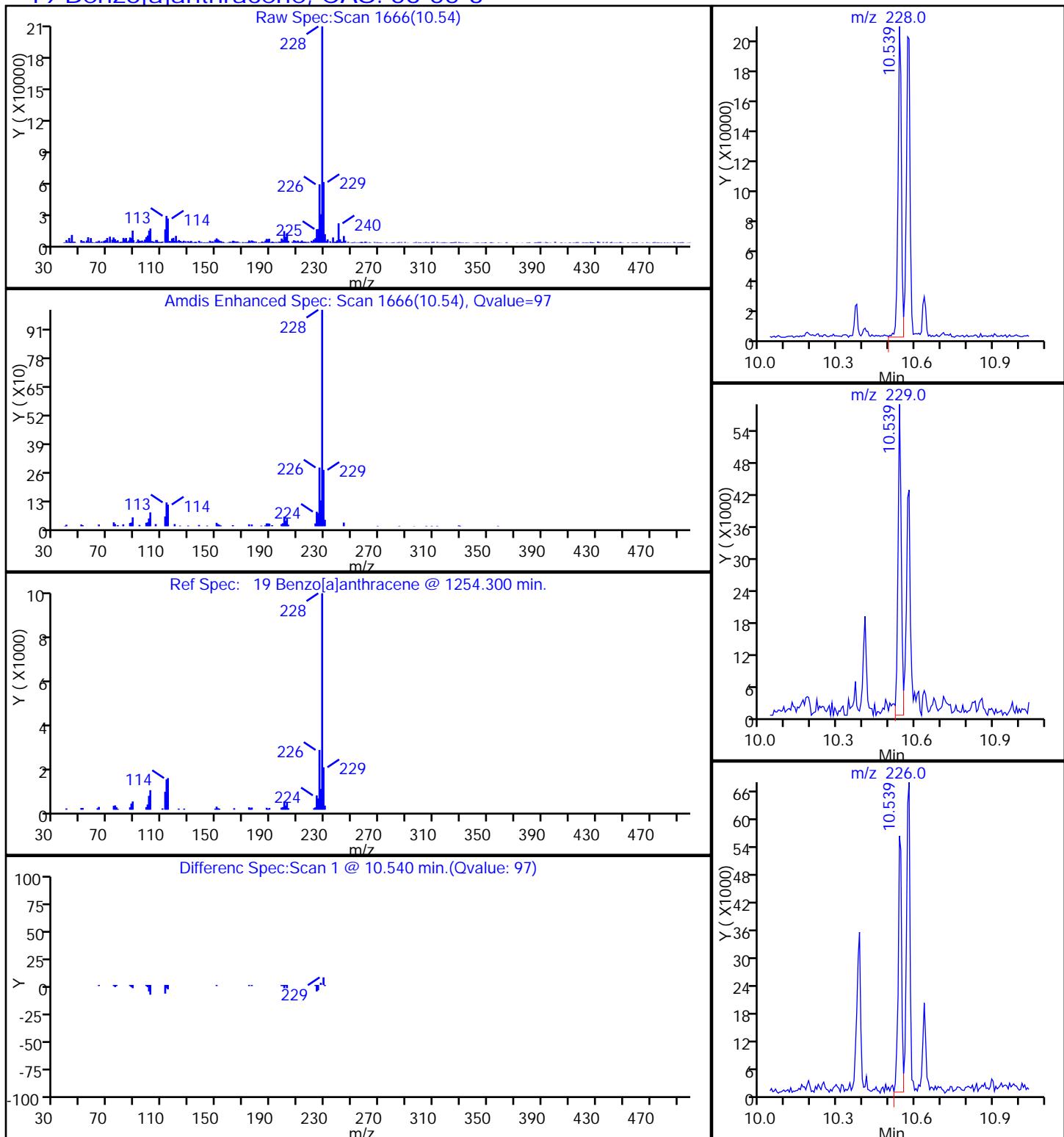
TestAmerica Savannah  
 Data File: \\ChromNA\\Savannah\\ChromData\\CMSD\\20150818-22356.b\\1DF18005.D  
 Injection Date: 18-Aug-2015 14:45:30 Instrument ID: CMSD  
 Lims ID: 680-115692-A-19-A Lab Sample ID: 680-115692-19  
 Client ID: CV0511BBB-CS-6  
 Operator ID: LIMS import ALS Bottle#: 5 Worklist Smp#: 5  
 Injection Vol: 2.0 ul Dil. Factor: 1.0000  
 Method: 8270\_New\_LLPAH\_CMSD Limit Group: 8270D\_LL\_PAH  
 Column: Restek RXi-5Sil MS ( 0.25 mm) Detector MS SCAN

### 16 Anthracene, CAS: 120-12-7

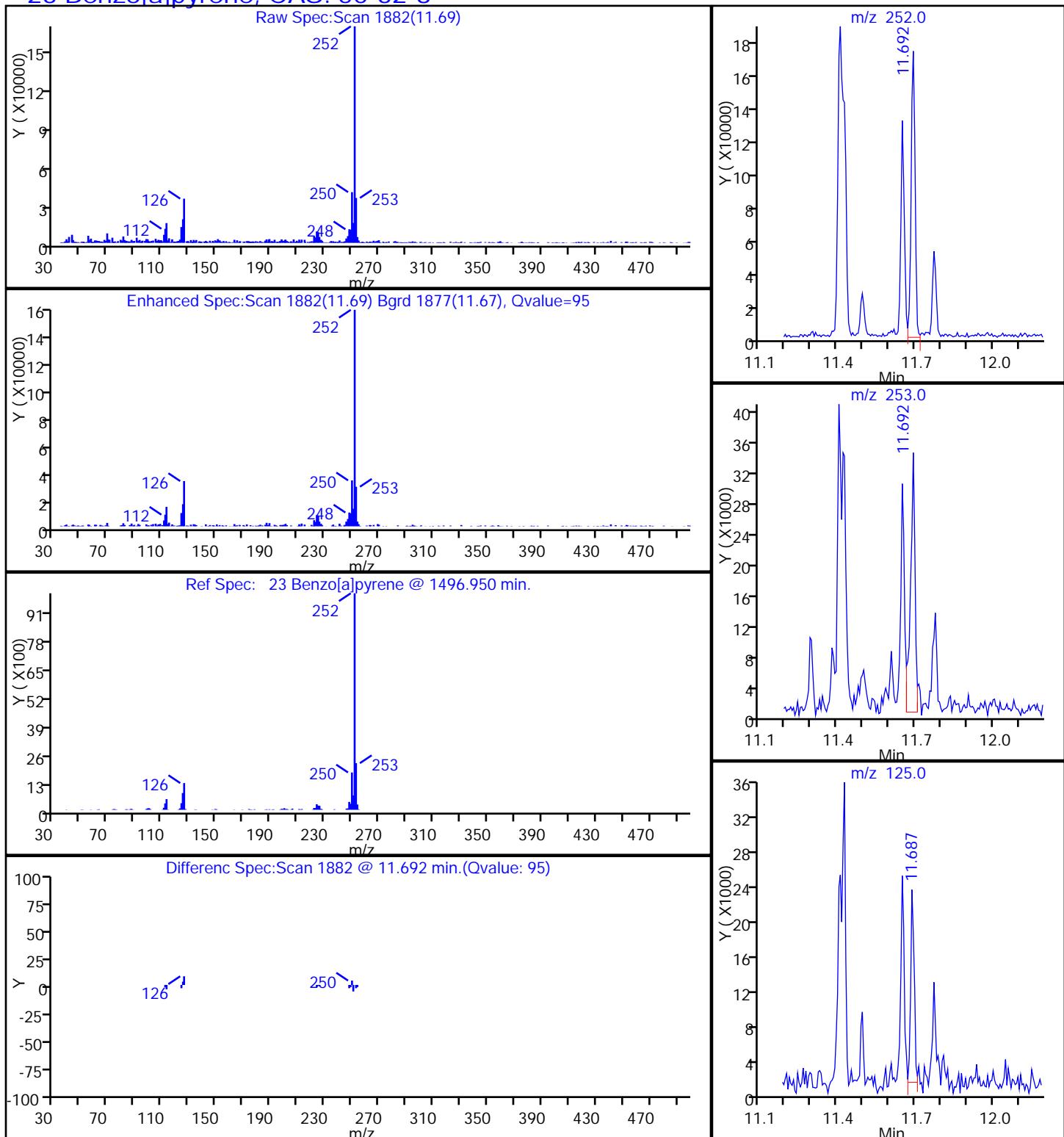


TestAmerica Savannah  
 Data File: \\ChromNA\\Savannah\\ChromData\\CMSD\\20150818-22356.b\\1DF18005.D  
 Injection Date: 18-Aug-2015 14:45:30 Instrument ID: CMSD  
 Lims ID: 680-115692-A-19-A Lab Sample ID: 680-115692-19  
 Client ID: CV0511BBB-CS-6  
 Operator ID: LIMS import ALS Bottle#: 5 Worklist Smp#: 5  
 Injection Vol: 2.0 ul Dil. Factor: 1.0000  
 Method: 8270\_New\_LLPAH\_CMSD Limit Group: 8270D\_LL\_PAH  
 Column: Restek RXi-5Sil MS ( 0.25 mm) Detector MS SCAN

### 19 Benzo[a]anthracene, CAS: 56-55-3

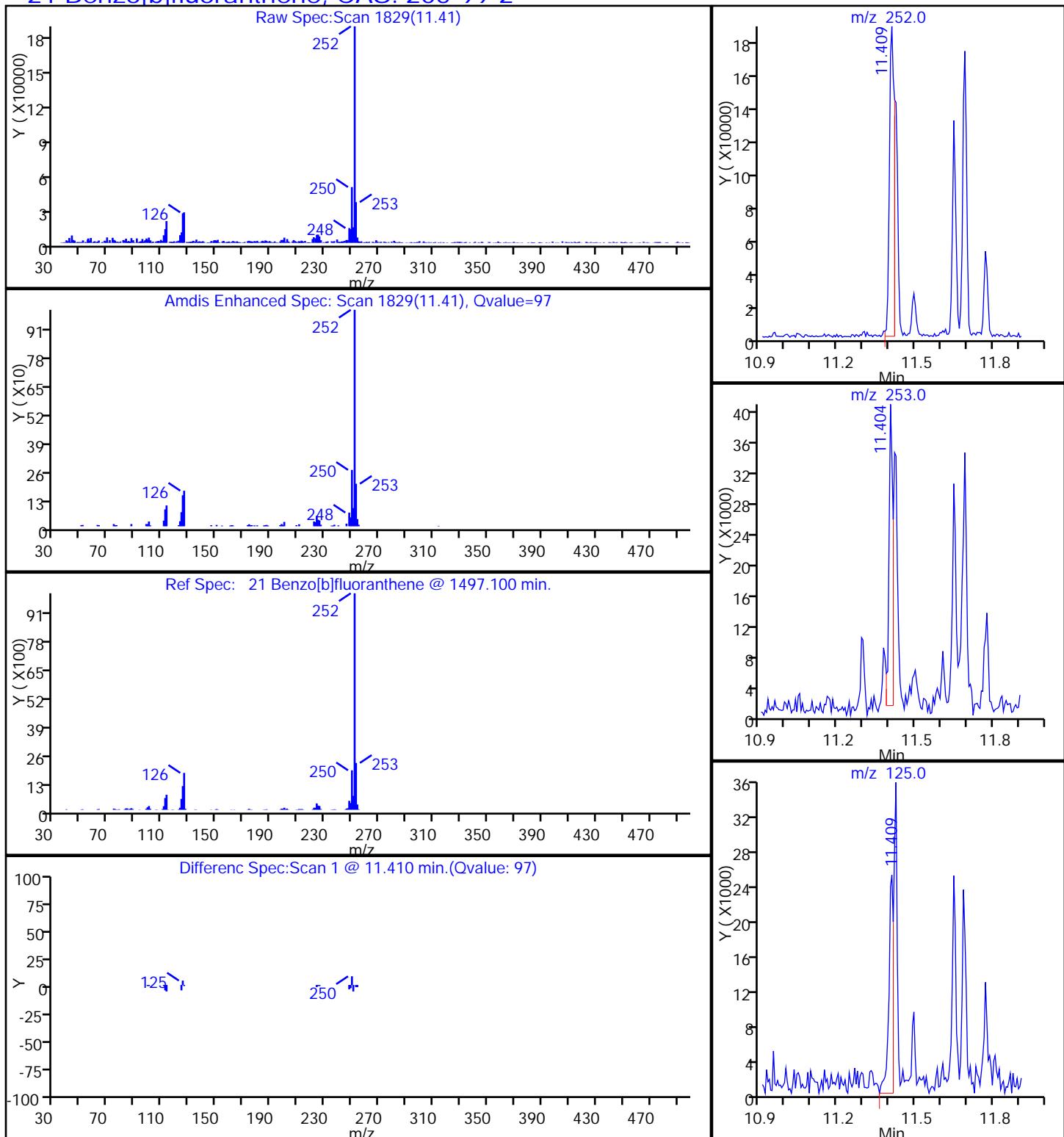


TestAmerica Savannah  
 Data File: \\ChromNA\\Savannah\\ChromData\\CMSD\\20150818-22356.b\\1DF18005.D  
 Injection Date: 18-Aug-2015 14:45:30 Instrument ID: CMSD  
 Lims ID: 680-115692-A-19-A Lab Sample ID: 680-115692-19  
 Client ID: CV0511BBB-CS-6  
 Operator ID: LIMS import ALS Bottle#: 5 Worklist Smp#: 5  
 Injection Vol: 2.0 ul Dil. Factor: 1.0000  
 Method: 8270\_New\_LLPAH\_CMSD Limit Group: 8270D\_LL\_PAH  
 Column: Restek RXi-5Sil MS ( 0.25 mm) Detector MS SCAN

**23 Benzo[a]pyrene, CAS: 50-32-8**

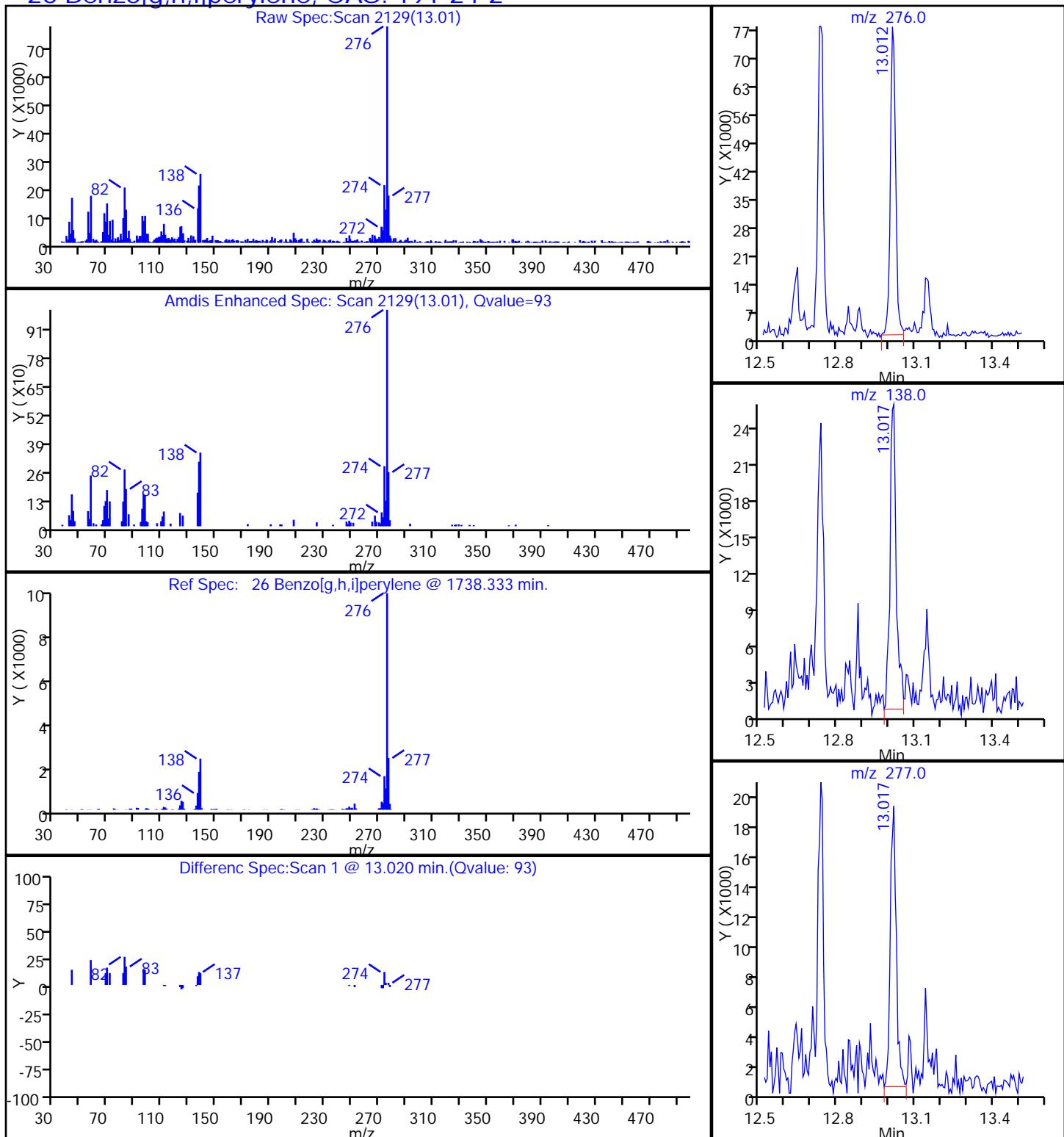
TestAmerica Savannah  
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 Lims ID: 680-115692-A-19-A Lab Sample ID: 680-115692-19  
 Client ID: CV0511BBB-CS-6  
 Operator ID: LIMS import ALS Bottle#: 5 Worklist Smp#: 5  
 Injection Vol: 2.0 ul Dil. Factor: 1.0000  
 Method: 8270\_New\_LLPAH\_CMSD Limit Group: 8270D\_LL\_PAH  
 Column: Restek RXi-5Sil MS ( 0.25 mm) Detector MS SCAN

### 21 Benzo[b]fluoranthene, CAS: 205-99-2

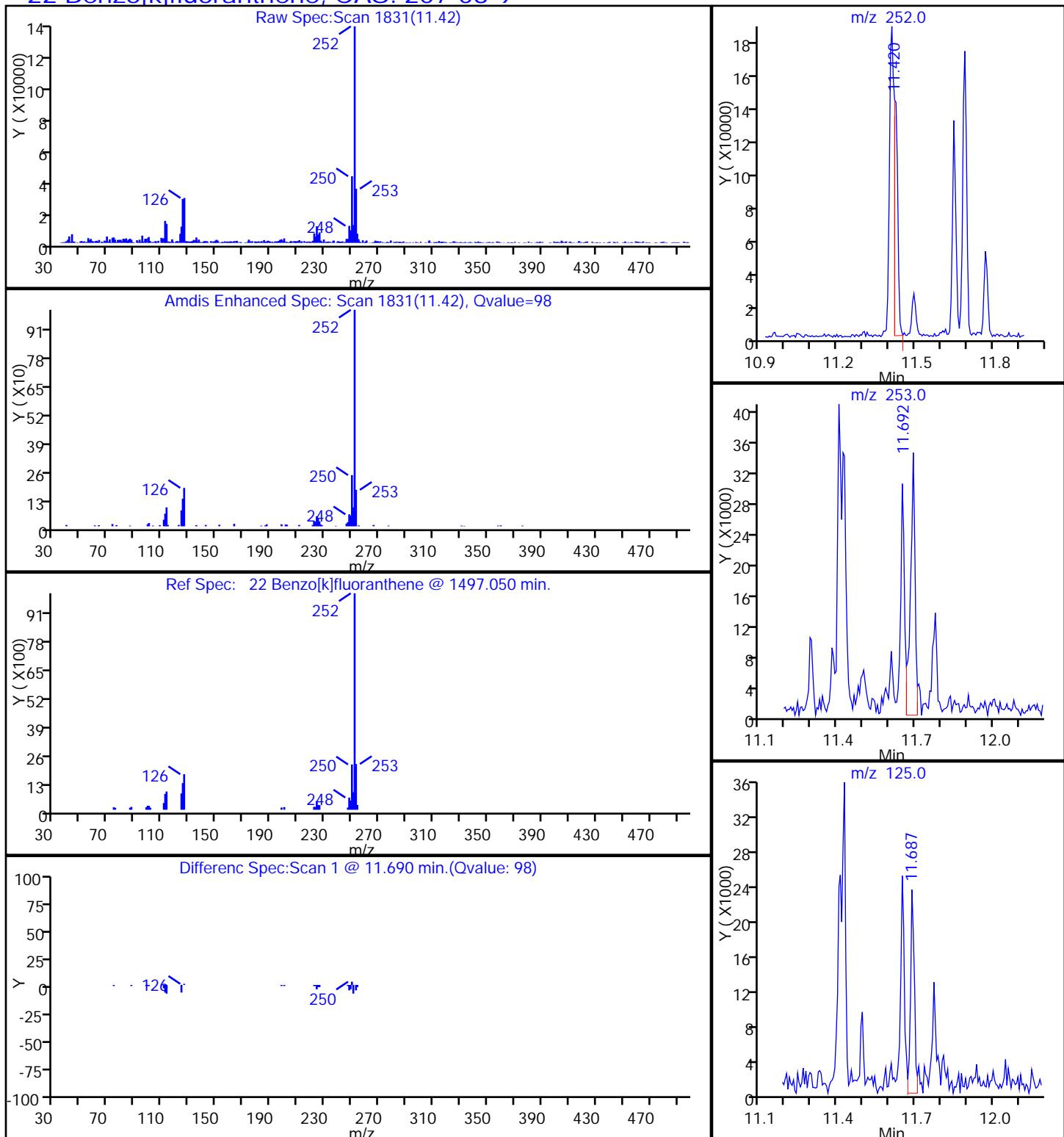


TestAmerica Savannah  
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 Injection Date: 18-Aug-2015 14:45:30 Instrument ID: CMSD  
 Lims ID: 680-115692-A-19-A Lab Sample ID: 680-115692-19  
 Client ID: CV0511BBB-CS-6  
 Operator ID: LIMS import ALS Bottle#: 5 Worklist Smp#: 5  
 Injection Vol: 2.0 ul Dil. Factor: 1.0000  
 Method: 8270\_New\_LLPAH\_CMSD Limit Group: 8270D\_LL\_PAH  
 Column: Restek RXi-5Sil MS ( 0.25 mm) Detector MS SCAN

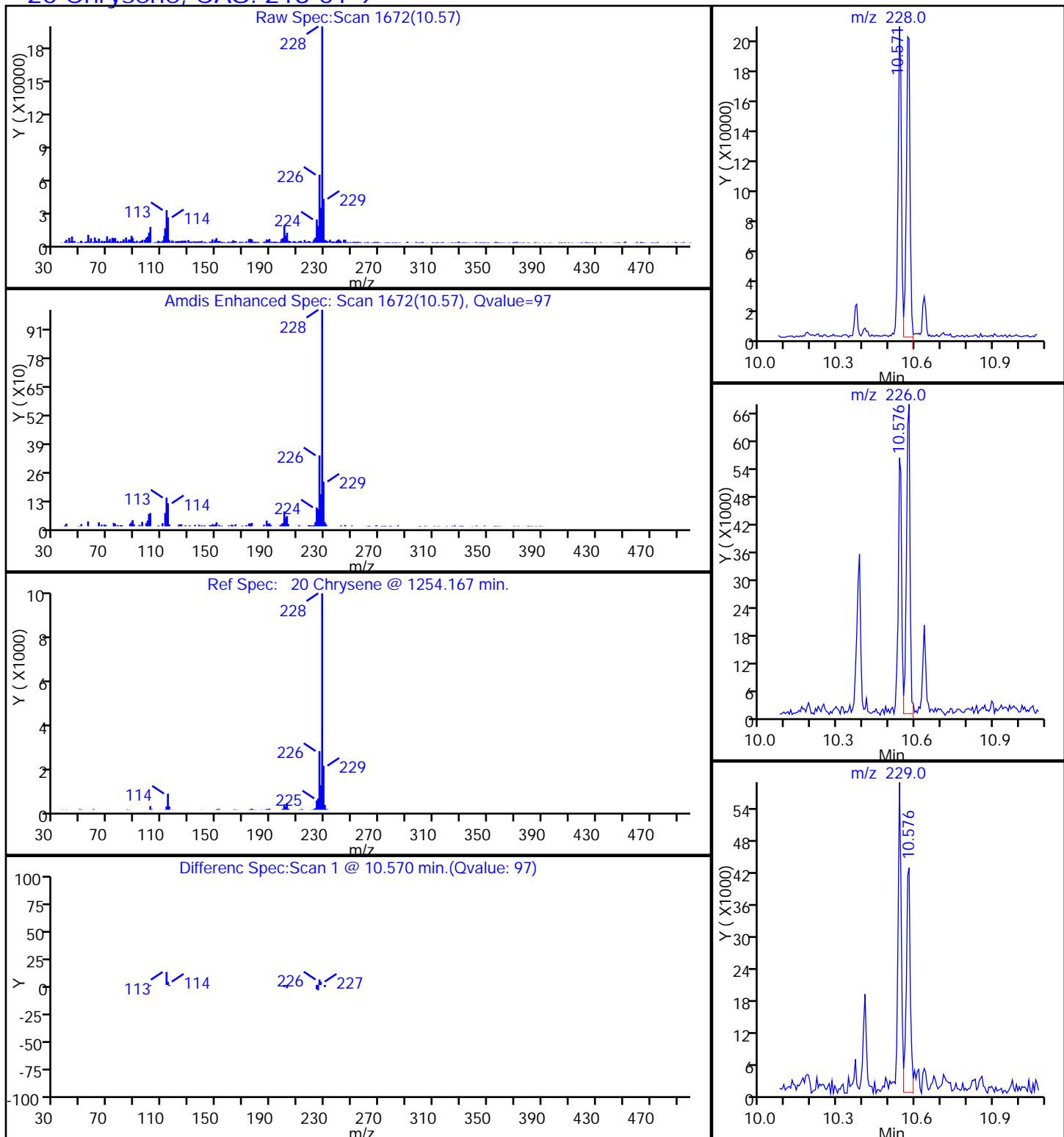
### 26 Benzo[g,h,i]perylene, CAS: 191-24-2



TestAmerica Savannah  
 Data File: \\ChromNA\\Savannah\\ChromData\\CMSD\\20150818-22356.b\\1DF18005.D  
 Injection Date: 18-Aug-2015 14:45:30 Instrument ID: CMSD  
 Lims ID: 680-115692-A-19-A Lab Sample ID: 680-115692-19  
 Client ID: CV0511BBB-CS-6  
 Operator ID: LIMS import ALS Bottle#: 5 Worklist Smp#: 5  
 Injection Vol: 2.0 ul Dil. Factor: 1.0000  
 Method: 8270\_New\_LLPAH\_CMSD Limit Group: 8270D\_LL\_PAH  
 Column: Restek RXi-5Sil MS ( 0.25 mm) Detector MS SCAN

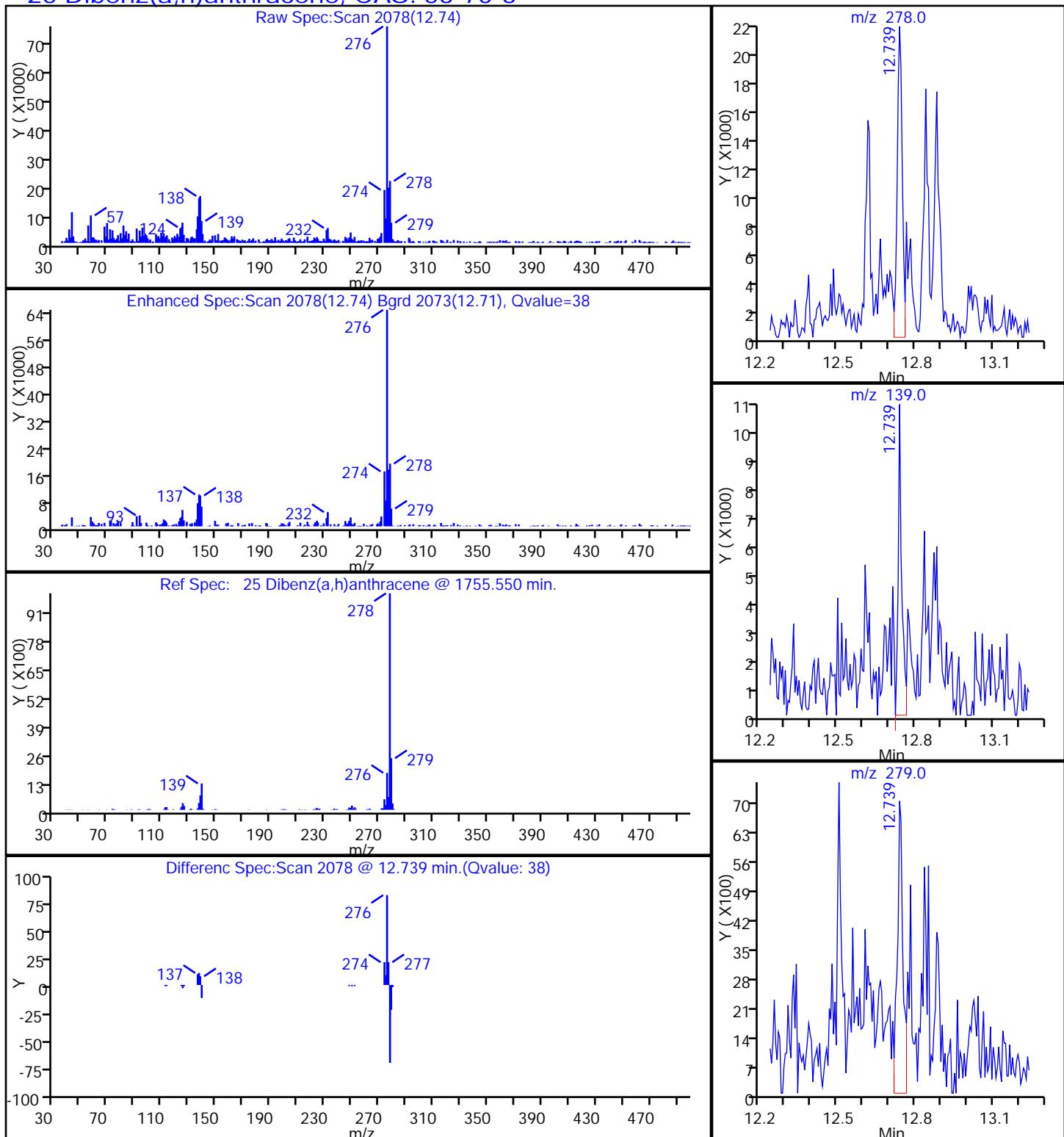
**22 Benzo[k]fluoranthene, CAS: 207-08-9**

TestAmerica Savannah  
 Data File: \\ChromNA\\Savannah\\ChromData\\CMSD\\20150818-22356.b\\1DF18005.D  
 Injection Date: 18-Aug-2015 14:45:30 Instrument ID: CMSD  
 Lims ID: 680-115692-A-19-A Lab Sample ID: 680-115692-19  
 Client ID: CV0511BBB-CS-6  
 Operator ID: LIMS import ALS Bottle#: 5 Worklist Smp#: 5  
 Injection Vol: 2.0 ul Dil. Factor: 1.0000  
 Method: 8270\_New\_LLPAH\_CMSD Limit Group: 8270D\_LL\_PAH  
 Column: Restek RXi-5Sil MS ( 0.25 mm) Detector MS SCAN

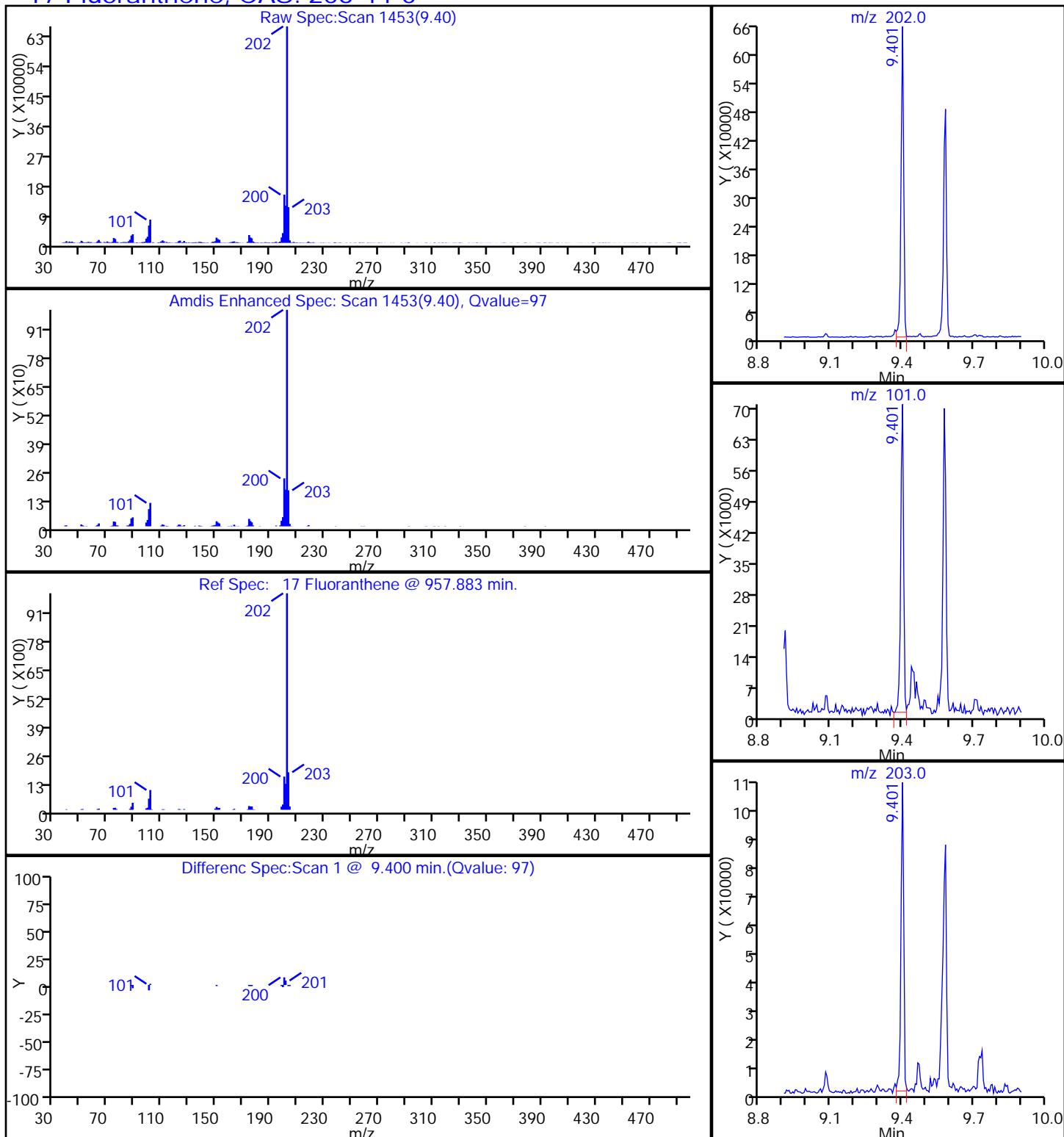
**20 Chrysene, CAS: 218-01-9**

TestAmerica Savannah  
 Data File: \\ChromNA\\Savannah\\ChromData\\CMSD\\20150818-22356.b\\1DF18005.D  
 Injection Date: 18-Aug-2015 14:45:30 Instrument ID: CMSD  
 Lims ID: 680-115692-A-19-A Lab Sample ID: 680-115692-19  
 Client ID: CV0511BBB-CS-6  
 Operator ID: LIMS import ALS Bottle#: 5 Worklist Smp#: 5  
 Injection Vol: 2.0 ul Dil. Factor: 1.0000  
 Method: 8270\_New\_LLPAH\_CMSD Limit Group: 8270D\_LL\_PAH  
 Column: Restek RXi-5Sil MS ( 0.25 mm) Detector MS SCAN

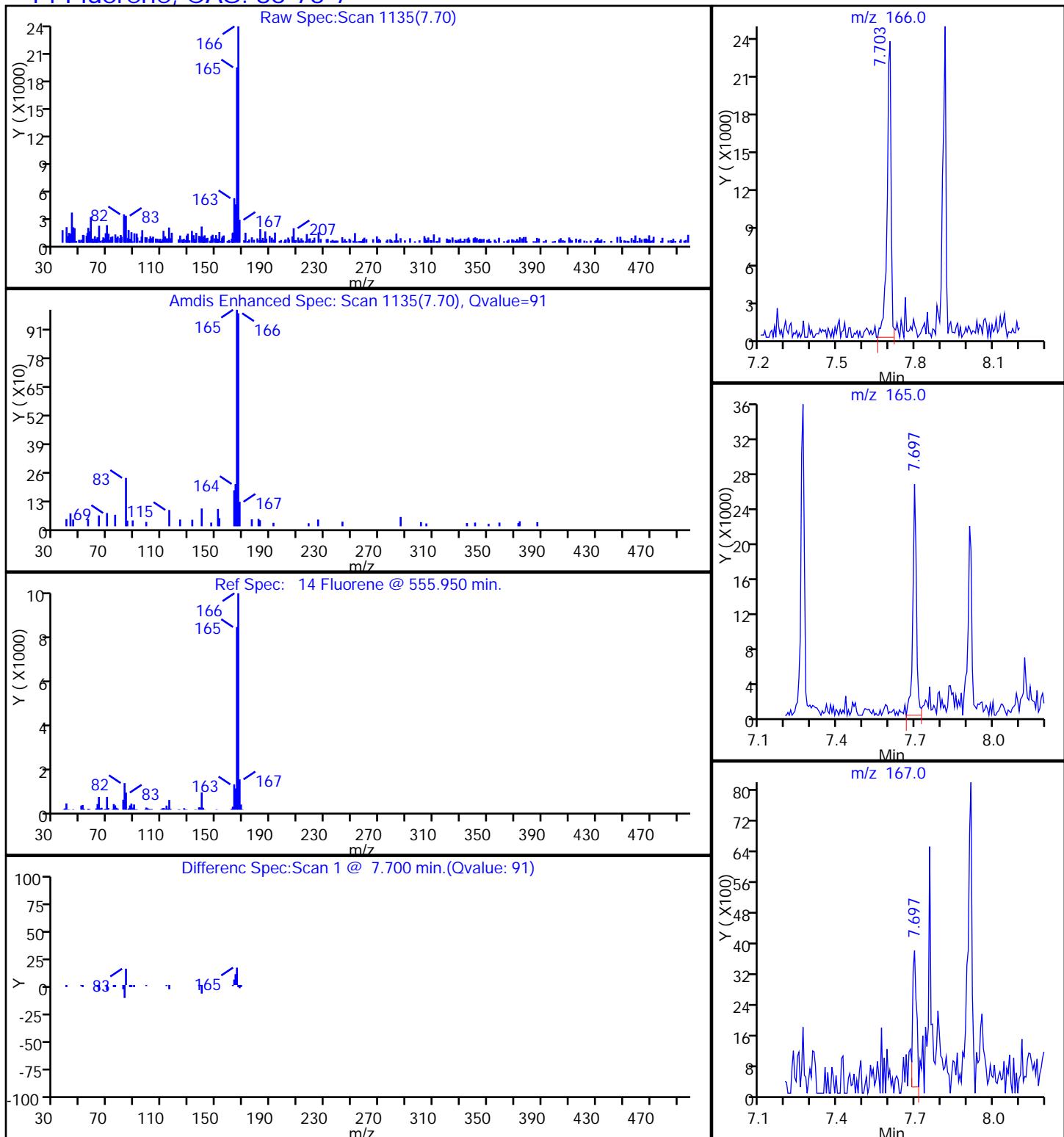
### 25 Dibenz(a,h)anthracene, CAS: 53-70-3



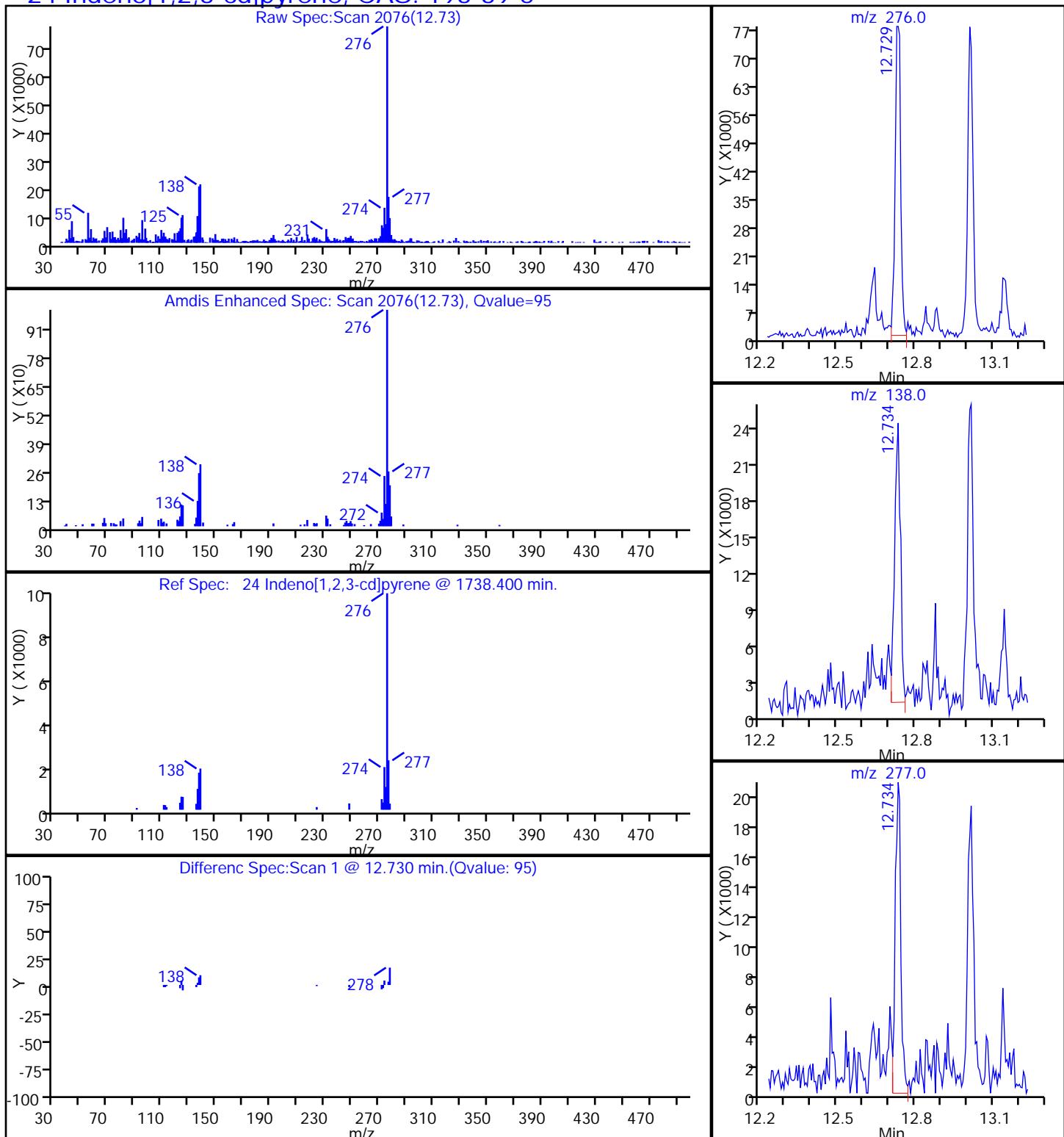
TestAmerica Savannah  
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 Client ID: CV0511BBB-CS-6  
 Operator ID: LIMS import ALS Bottle#: 5 Worklist Smp#: 5  
 Injection Vol: 2.0 ul Dil. Factor: 1.0000  
 Method: 8270\_New\_LLPAH\_CMSD Limit Group: 8270D\_LL\_PAH  
 Column: Restek RXi-5Sil MS ( 0.25 mm) Detector MS SCAN

**17 Fluoranthene, CAS: 206-44-0**

TestAmerica Savannah  
 Data File: \\ChromNA\\Savannah\\ChromData\\CMSD\\20150818-22356.b\\1DF18005.D  
 Injection Date: 18-Aug-2015 14:45:30 Instrument ID: CMSD  
 Lims ID: 680-115692-A-19-A Lab Sample ID: 680-115692-19  
 Client ID: CV0511BBB-CS-6  
 Operator ID: LIMS import ALS Bottle#: 5 Worklist Smp#: 5  
 Injection Vol: 2.0 ul Dil. Factor: 1.0000  
 Method: 8270\_New\_LLPAH\_CMSD Limit Group: 8270D\_LL\_PAH  
 Column: Restek RXi-5Sil MS ( 0.25 mm) Detector MS SCAN

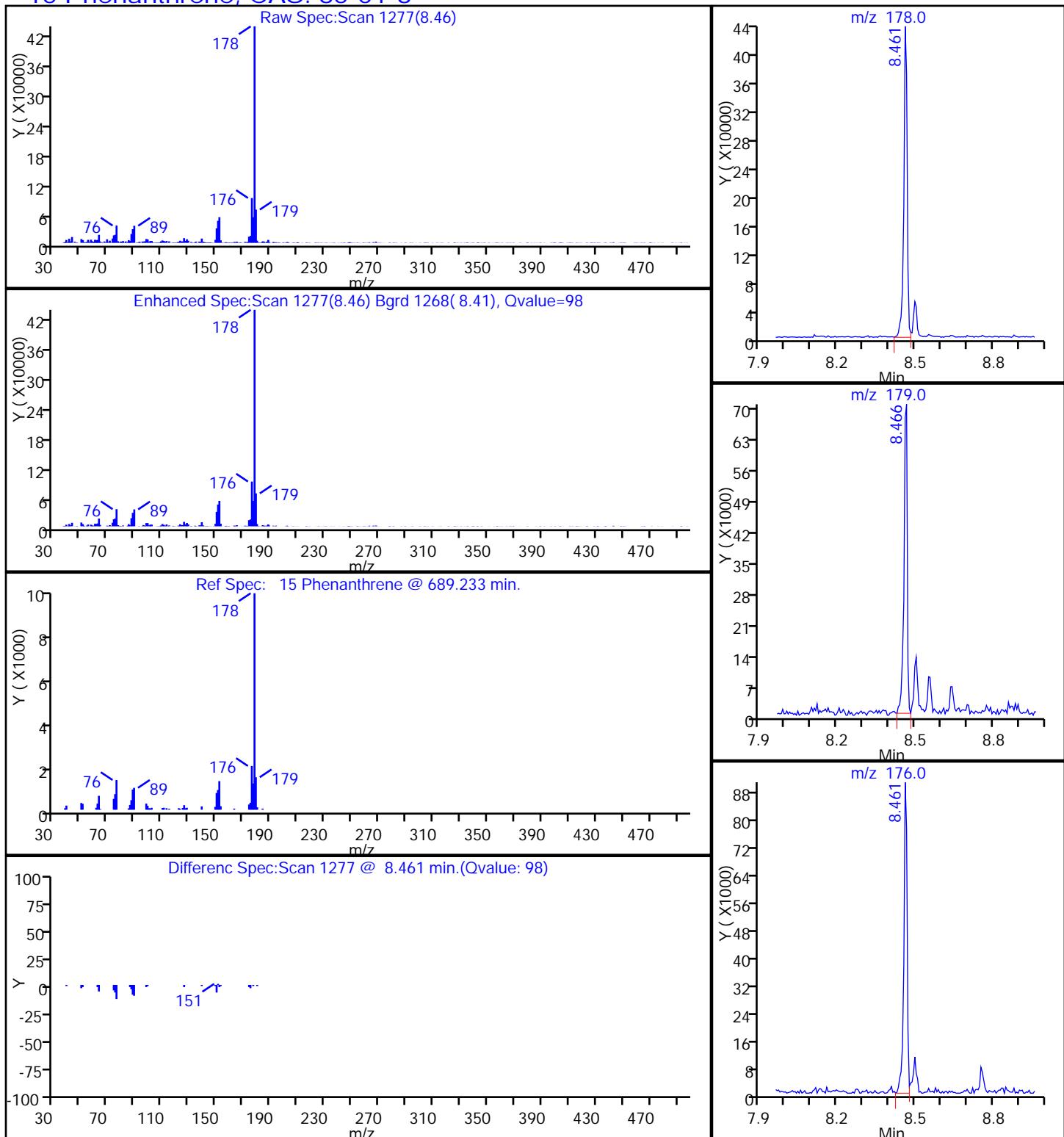
**14 Fluorene, CAS: 86-73-7**

TestAmerica Savannah  
 Data File: \\ChromNA\\Savannah\\ChromData\\CMSD\\20150818-22356.b\\1DF18005.D  
 Injection Date: 18-Aug-2015 14:45:30 Instrument ID: CMSD  
 Lims ID: 680-115692-A-19-A Lab Sample ID: 680-115692-19  
 Client ID: CV0511BBB-CS-6  
 Operator ID: LIMS import ALS Bottle#: 5 Worklist Smp#: 5  
 Injection Vol: 2.0 ul Dil. Factor: 1.0000  
 Method: 8270\_New\_LLPAH\_CMSD Limit Group: 8270D\_LL\_PAH  
 Column: Restek RXi-5Sil MS ( 0.25 mm) Detector MS SCAN

**24 Indeno[1,2,3-cd]pyrene, CAS: 193-39-5**

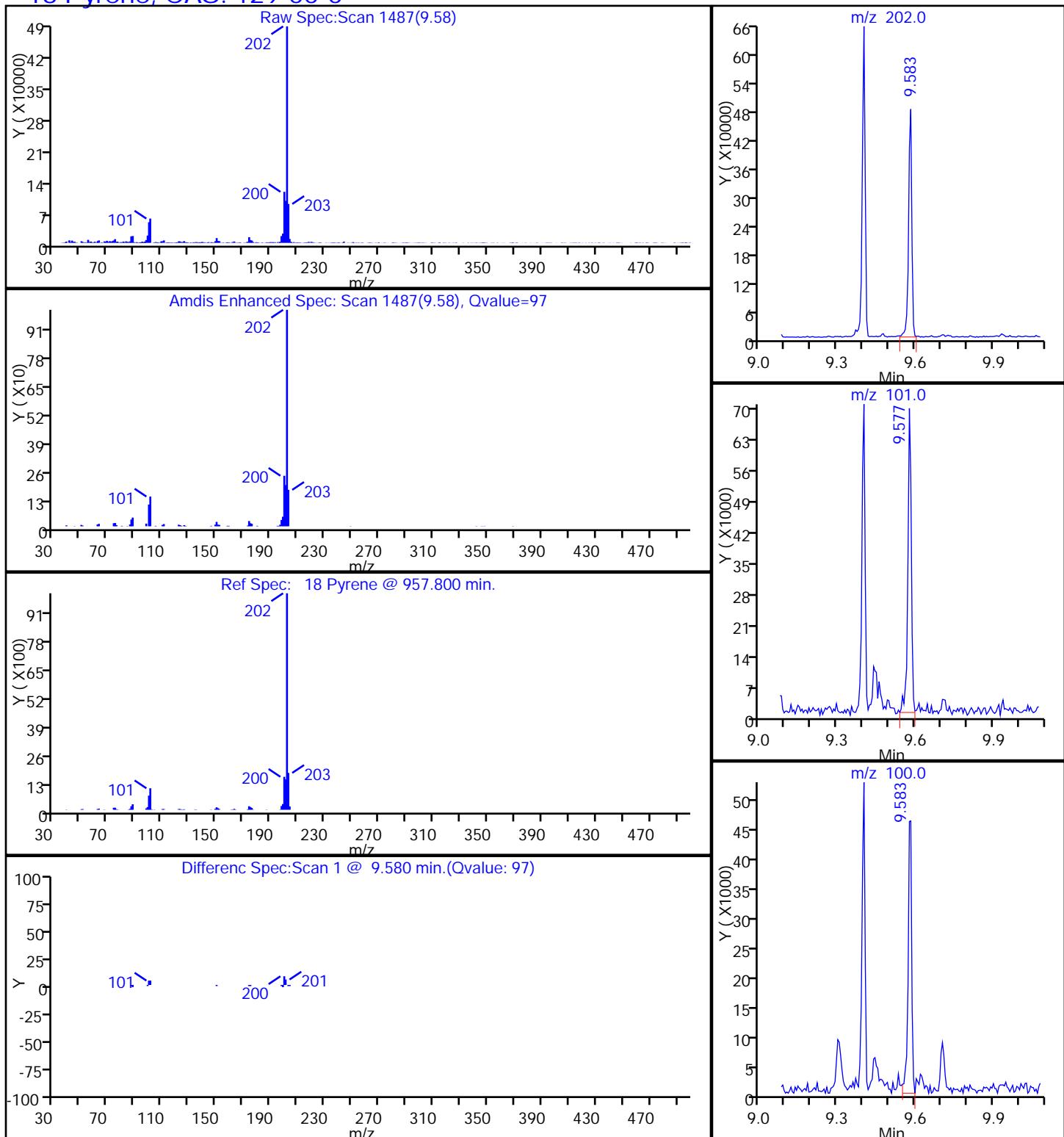
TestAmerica Savannah  
 Data File: \\ChromNA\\Savannah\\ChromData\\CMSD\\20150818-22356.b\\1DF18005.D  
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 Lims ID: 680-115692-A-19-A Lab Sample ID: 680-115692-19  
 Client ID: CV0511BBB-CS-6  
 Operator ID: LIMS import ALS Bottle#: 5 Worklist Smp#: 5  
 Injection Vol: 2.0 ul Dil. Factor: 1.0000  
 Method: 8270\_New\_LLPAH\_CMSD Limit Group: 8270D\_LL\_PAH  
 Column: Restek RXi-5Sil MS ( 0.25 mm) Detector MS SCAN

## 15 Phenanthrene, CAS: 85-01-8



TestAmerica Savannah  
 Data File: \\ChromNA\\Savannah\\ChromData\\CMSD\\20150818-22356.b\\1DF18005.D  
 Injection Date: 18-Aug-2015 14:45:30 Instrument ID: CMSD  
 Lims ID: 680-115692-A-19-A Lab Sample ID: 680-115692-19  
 Client ID: CV0511BBB-CS-6  
 Operator ID: LIMS import ALS Bottle#: 5 Worklist Smp#: 5  
 Injection Vol: 2.0 ul Dil. Factor: 1.0000  
 Method: 8270\_New\_LLPAH\_CMSD Limit Group: 8270D\_LL\_PAH  
 Column: Restek RXi-5Sil MS ( 0.25 mm) Detector MS SCAN

## 18 Pyrene, CAS: 129-00-0



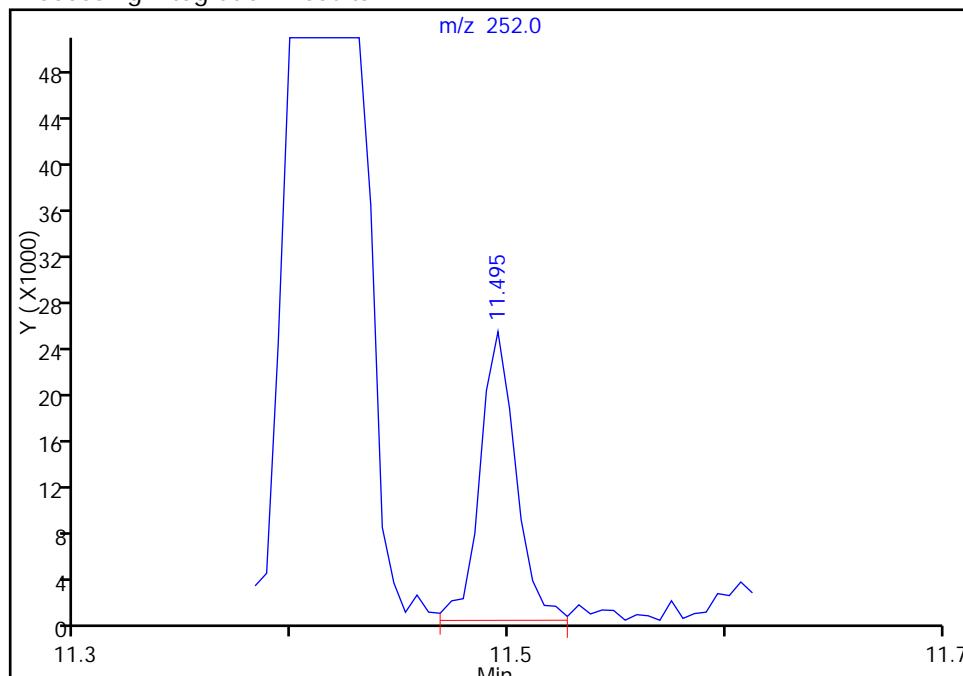
## TestAmerica Savannah

Data File: \\ChromNA\\Savannah\\ChromData\\CMSD\\20150818-22356.b\\1DF18005.D  
 Injection Date: 18-Aug-2015 14:45:30 Instrument ID: CMSD  
 Lims ID: 680-115692-A-19-A Lab Sample ID: 680-115692-19  
 Client ID: CV0511BBB-CS-6  
 Operator ID: LIMS import ALS Bottle#: 5 Worklist Smp#: 5  
 Injection Vol: 2.0 ul Dil. Factor: 1.0000  
 Method: 8270\_New\_LLPAH\_CMSD Limit Group: 8270D\_LL\_PAH  
 Column: Restek RXi-5Sil MS ( 0.25 mm) Detector: MS SCAN

## 21 Benzo[b]fluoranthene, CAS: 205-99-2

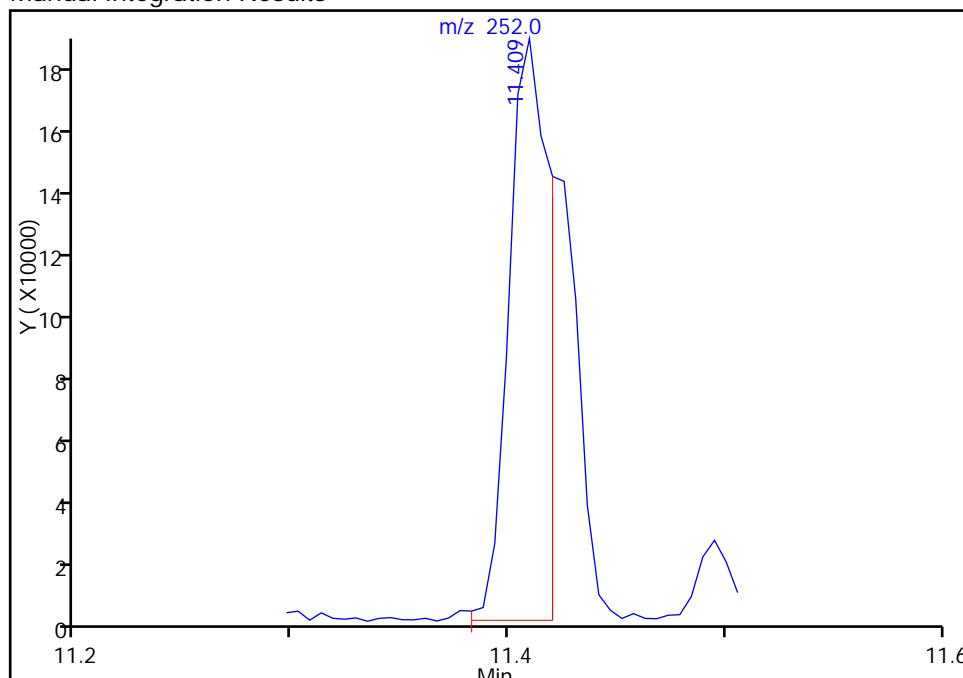
RT: 11.49  
 Area: 28686  
 Amount: 0.131392  
 Amount Units: ug/ml

## Processing Integration Results



RT: 11.41  
 Area: 237645  
 Amount: 1.072794  
 Amount Units: ug/ml

## Manual Integration Results



Reviewer: millsj, 19-Aug-2015 11:58:02

Audit Action: Manually Integrated

Audit Reason: Assign Peak

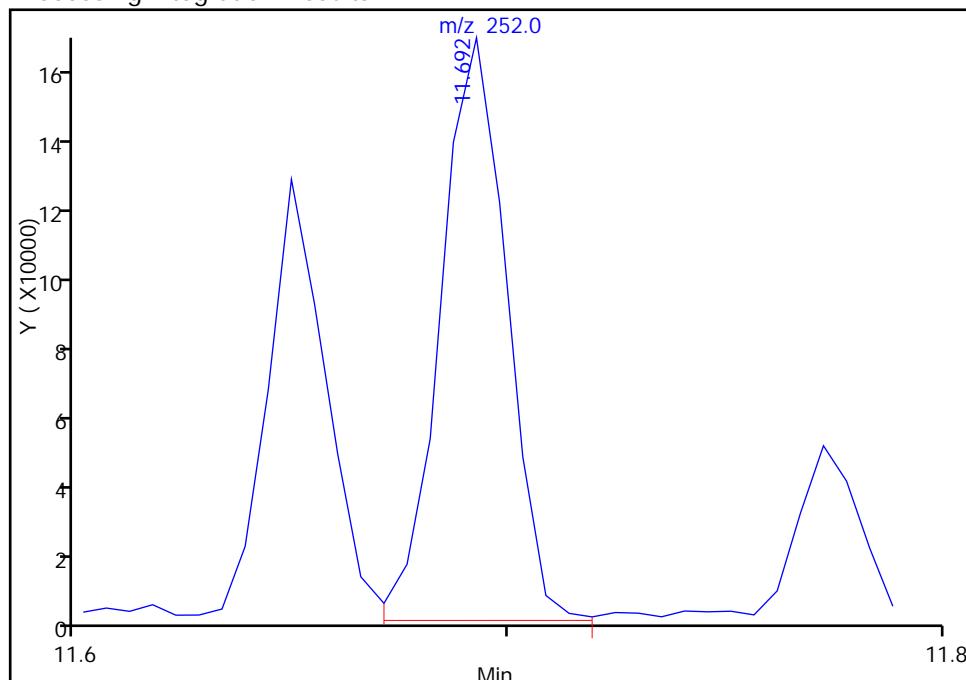
## TestAmerica Savannah

Data File: \\ChromNA\\Savannah\\ChromData\\CMSD\\20150818-22356.b\\1DF18005.D  
 Injection Date: 18-Aug-2015 14:45:30 Instrument ID: CMSD  
 Lims ID: 680-115692-A-19-A Lab Sample ID: 680-115692-19  
 Client ID: CV0511BBB-CS-6  
 Operator ID: LIMS import ALS Bottle#: 5 Worklist Smp#: 5  
 Injection Vol: 2.0 ul Dil. Factor: 1.0000  
 Method: 8270\_New\_LLPAH\_CMSD Limit Group: 8270D\_LL\_PAH  
 Column: Restek RXi-5Sil MS ( 0.25 mm) Detector: MS SCAN

## 22 Benzo[k]fluoranthene, CAS: 207-08-9

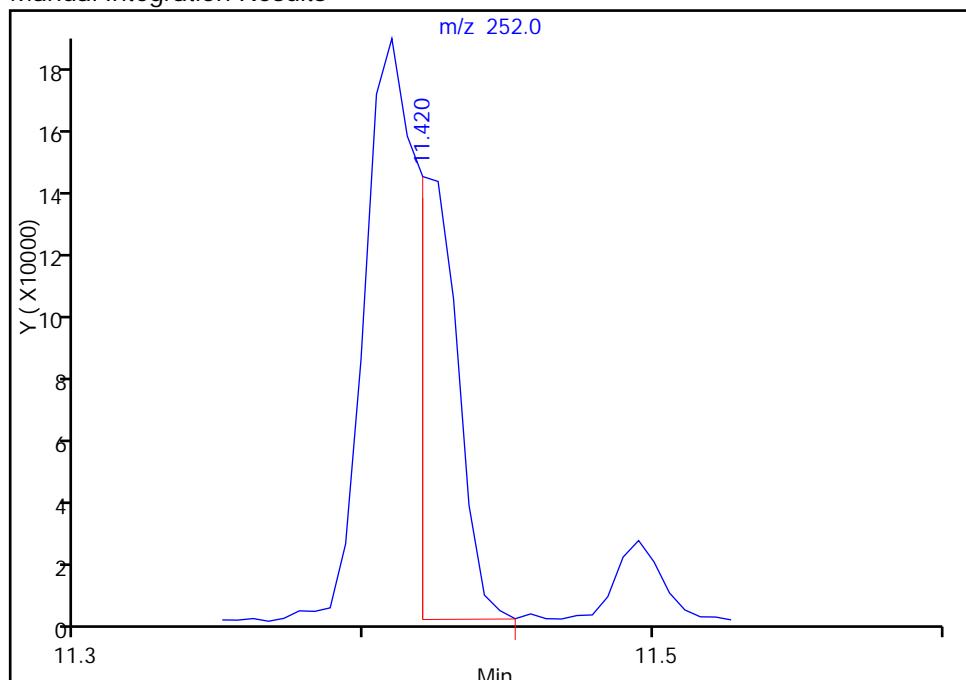
RT: 11.69  
 Area: 176533  
 Amount: 0.821472  
 Amount Units: ug/ml

## Processing Integration Results



RT: 11.42  
 Area: 133696  
 Amount: 0.623681  
 Amount Units: ug/ml

## Manual Integration Results



Reviewer: millsj, 19-Aug-2015 11:58:02

Audit Action: Manually Integrated

Audit Reason: Assign Peak

FORM I  
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Savannah Job No.: 680-115692-1  
 SDG No.: 680-115692-01  
 Client Sample ID: CV0511BBB-CS-12 Lab Sample ID: 680-115692-20  
 Matrix: Solid Lab File ID: 1DF18006.D  
 Analysis Method: 8270D\_LL\_PAH Date Collected: 08/11/2015 09:35  
 Extract. Method: 3546 Date Extracted: 08/17/2015 10:44  
 Sample wt/vol: 29.94(g) Date Analyzed: 08/18/2015 15:14  
 Con. Extract Vol.: 1(mL) Dilution Factor: 10  
 Injection Volume: 2(uL) Level: (low/med) Low  
 % Moisture: 13.0 GPC Cleanup: (Y/N) N  
 Analysis Batch No.: 396705 Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	77	U	77	38
208-96-8	Acenaphthylene	77	U	77	38
120-12-7	Anthracene	77	U	77	38
56-55-3	Benzo[a]anthracene	77		77	38
50-32-8	Benzo[a]pyrene	72	J	77	14
205-99-2	Benzo[b]fluoranthene	73	J	77	38
191-24-2	Benzo[g,h,i]perylene	92		77	38
207-08-9	Benzo[k]fluoranthene	56	J	77	23
218-01-9	Chrysene	87		77	38
53-70-3	Dibenz(a,h)anthracene	77	U	77	38
206-44-0	Fluoranthene	130		77	38
86-73-7	Fluorene	77	U	77	38
193-39-5	Indeno[1,2,3-cd]pyrene	64	J	77	38
90-12-0	1-Methylnaphthalene	77	U	77	36
91-57-6	2-Methylnaphthalene	77	U	77	38
91-20-3	Naphthalene	77	U	77	38
85-01-8	Phenanthrene	72	J	77	28
129-00-0	Pyrene	130		77	38

CAS NO.	SURROGATE	%REC	Q	LIMITS
84-15-1	o-Terphenyl	0	D	36-131

TestAmerica Savannah  
Target Compound Quantitation Report

Data File: \\ChromNA\Savannah\ChromData\CMSD\20150818-22356.b\1DF18006.D  
 Lims ID: 680-115692-A-20-A Lab Sample ID: 680-115692-20  
 Client ID: CV0511BBB-CS-12  
 Sample Type: Client  
 Inject. Date: 18-Aug-2015 15:14:30 ALS Bottle#: 6 Worklist Smp#: 6  
 Injection Vol: 2.0 ul Dil. Factor: 10.0000  
 Sample Info: 115692-20 @10  
 Misc. Info.: 680-0022356-006  
 Operator ID: LIMS import Instrument ID: CMSD  
 Method: \\ChromNA\Savannah\ChromData\CMSD\20150818-22356.b\8270\_New\_LLPAH\_CMSD.m  
 Limit Group: 8270D\_LL\_PAH  
 Last Update: 19-Aug-2015 13:35:46 Calib Date: 13-Aug-2015 21:10:30  
 Integrator: RTE ID Type: Deconvolution ID  
 Quant Method: Internal Standard Quant By: Initial Calibration  
 Last ICAL File: \\ChromNA\Savannah\ChromData\CMSD\20150813-22241.b\1DF13008.D  
 Column 1 : Restek RXi-5Sil MS ( 0.25 mm) Det: MS SCAN  
 Process Host: XAWRK003

First Level Reviewer: millsj Date: 19-Aug-2015 13:54:57

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/ml	Flags
* 1 Naphthalene-d8	136	5.843	5.848	-0.005	99	559478	2.00	
* 2 Acenaphthene-d10	164	7.264	7.263	0.001	96	297056	2.00	
* 3 Phenanthrene-d10	188	8.444	8.444	0.000	98	611036	2.00	
* 4 Chrysene-d12	240	10.570	10.570	0.000	99	517780	2.00	
* 5 Perylene-d12	264	11.777	11.787	-0.010	98	464312	2.00	
8 2-Methylnaphthalene	142	6.430	6.430	0.000	84	11326	0.0671	
9 1-Methylnaphthalene	142	6.511	6.510	0.001	35	6860	0.0467	
15 Phenanthrene	178	8.465	8.465	0.000	95	57691	0.1879	
17 Fluoranthene	202	9.400	9.400	0.000	97	107817	0.3467	
18 Pyrene	202	9.582	9.581	0.001	98	90388	0.3468	
19 Benzo[a]anthracene	228	10.554	10.554	0.000	95	48002	0.1999	
20 Chrysene	228	10.586	10.591	-0.005	98	55547	0.2255	
21 Benzo[b]fluoranthene	252	11.430	11.440	-0.010	93	51941	0.1895	
22 Benzo[k]fluoranthene	252	11.446	11.456	-0.010	95	38728	0.1449	M
23 Benzo[a]pyrene	252	11.713	11.723	-0.010	95	40961	0.1872	
24 Indeno[1,2,3-cd]pyrene	276	12.754	12.759	-0.005	78	36923	0.1655	
26 Benzo[g,h,i]perylene	276	13.032	13.037	-0.005	95	49701	0.2404	

### QC Flag Legend

Review Flags

M - Manually Integrated

### Reagents:

SM-LLISTD\_00128

Amount Added: 10.00

Units: uL

Run Reagent

Report Date: 19-Aug-2015 13:54:58

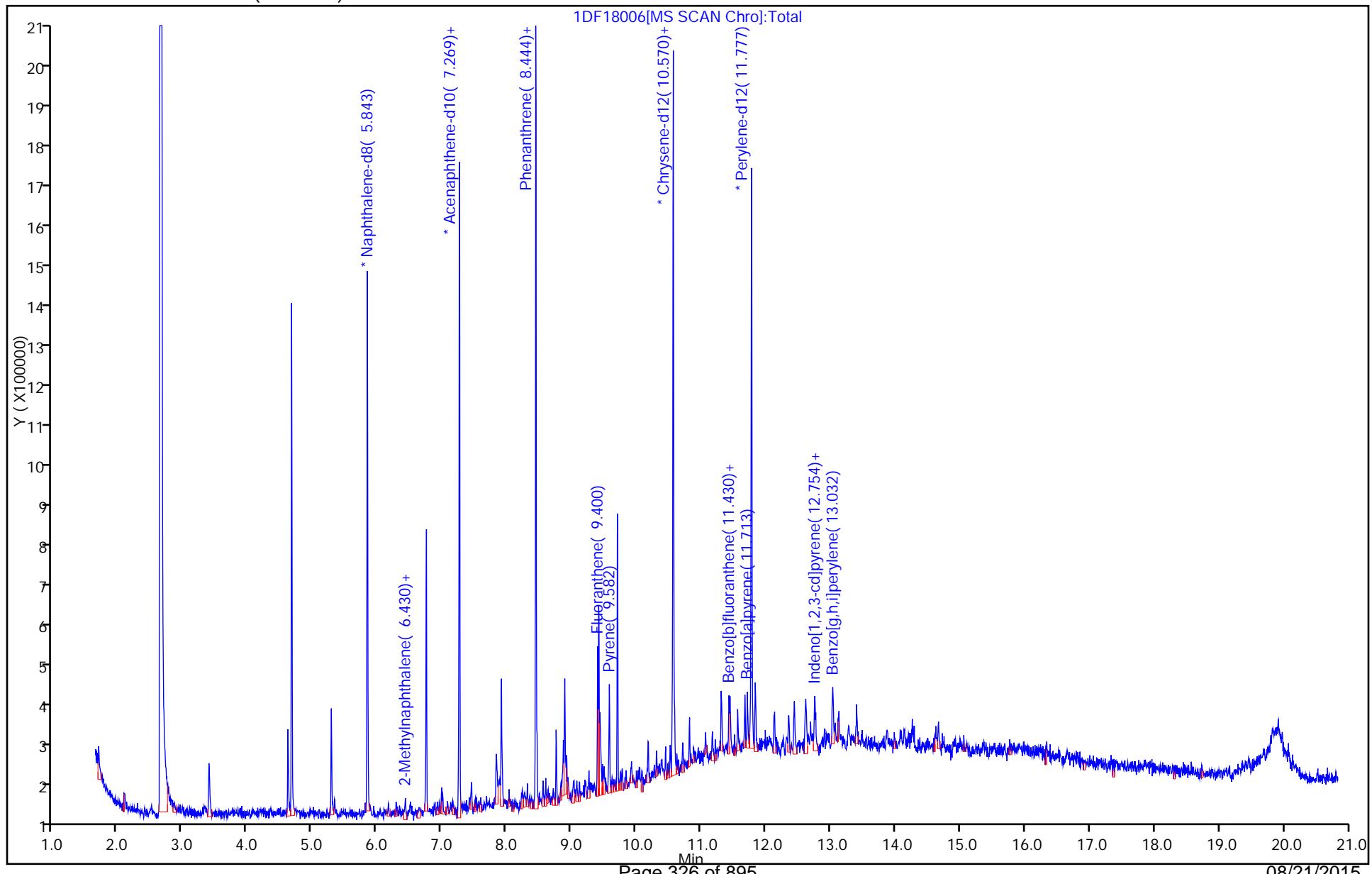
Chrom Revision: 2.2 23-Jul-2015 08:26:08

## TestAmerica Savannah

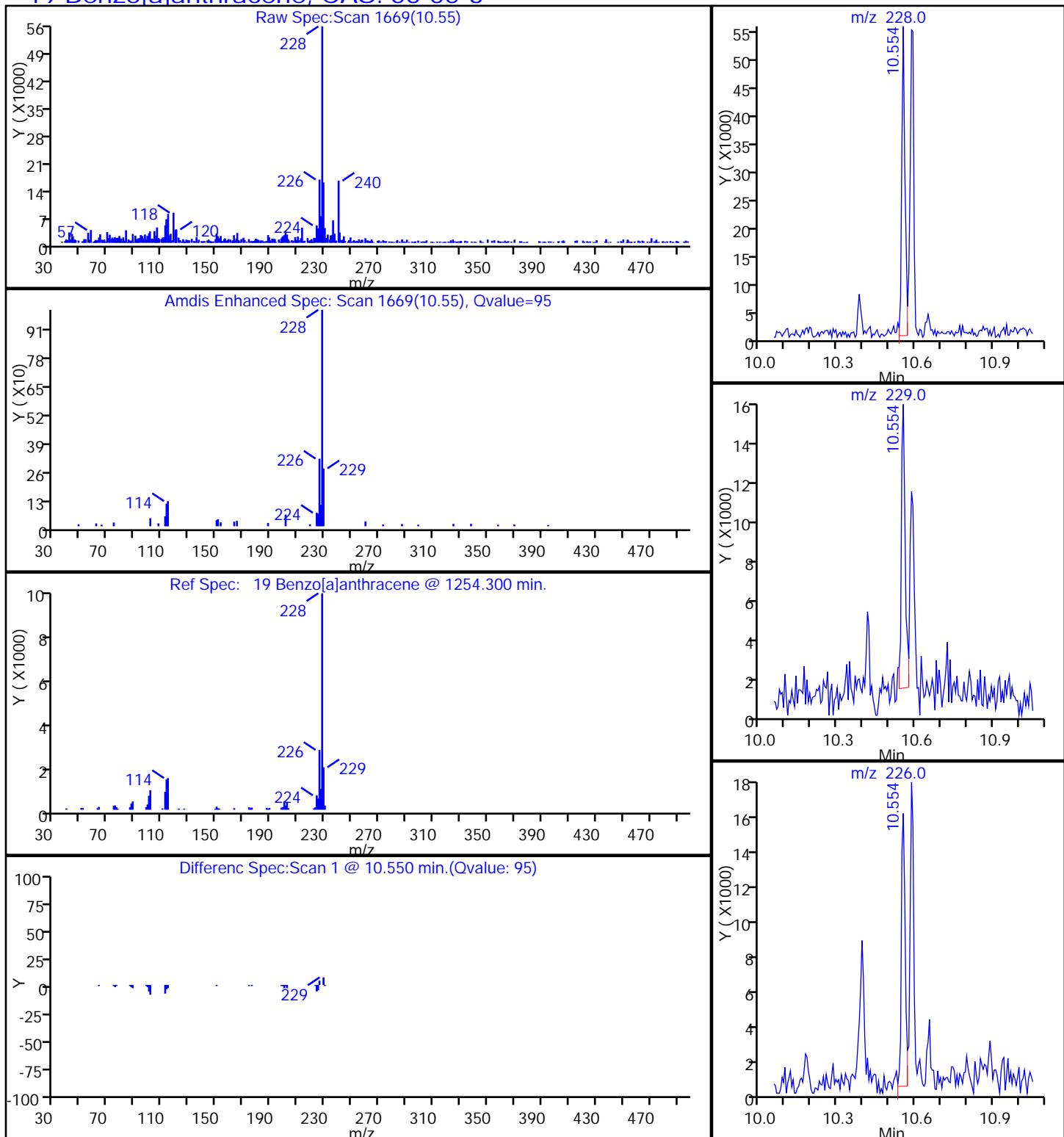
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Injection Date: 18-Aug-2015 15:14:30 Instrument ID: CMSD  
Lims ID: 680-115692-A-20-A Lab Sample ID: 680-115692-20  
Client ID: CV0511BBB-CS-12  
Injection Vol: 2.0 ul Dil. Factor: 10.0000  
Method: 8270\_New\_LLPAH\_CMSD Limit Group: 8270D\_LL\_PAH  
Column: Restek RXi-5Sil MS ( 0.25 mm)

Operator ID: LIMS import  
Worklist Smp#: 6

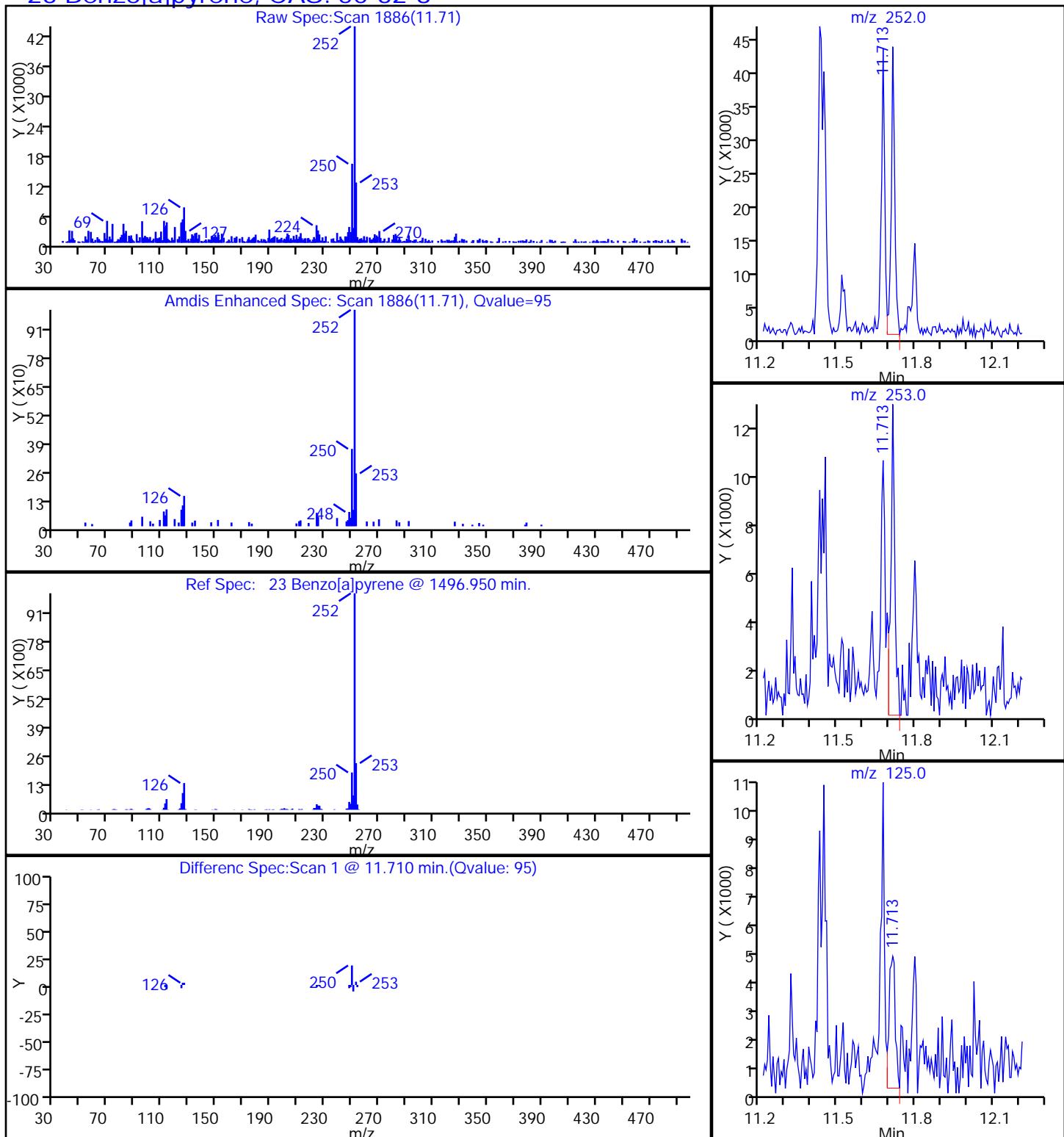
ALS Bottle#: 6



TestAmerica Savannah  
 Data File: \\ChromNA\\Savannah\\ChromData\\CMSD\\20150818-22356.b\\1DF18006.D  
 Injection Date: 18-Aug-2015 15:14:30 Instrument ID: CMSD  
 Lims ID: 680-115692-A-20-A Lab Sample ID: 680-115692-20  
 Client ID: CV0511BBB-CS-12  
 Operator ID: LIMS import ALS Bottle#: 6 Worklist Smp#: 6  
 Injection Vol: 2.0 ul Dil. Factor: 10.0000  
 Method: 8270\_New\_LLPAH\_CMSD Limit Group: 8270D\_LL\_PAH  
 Column: Restek RXi-5Sil MS ( 0.25 mm) Detector MS SCAN

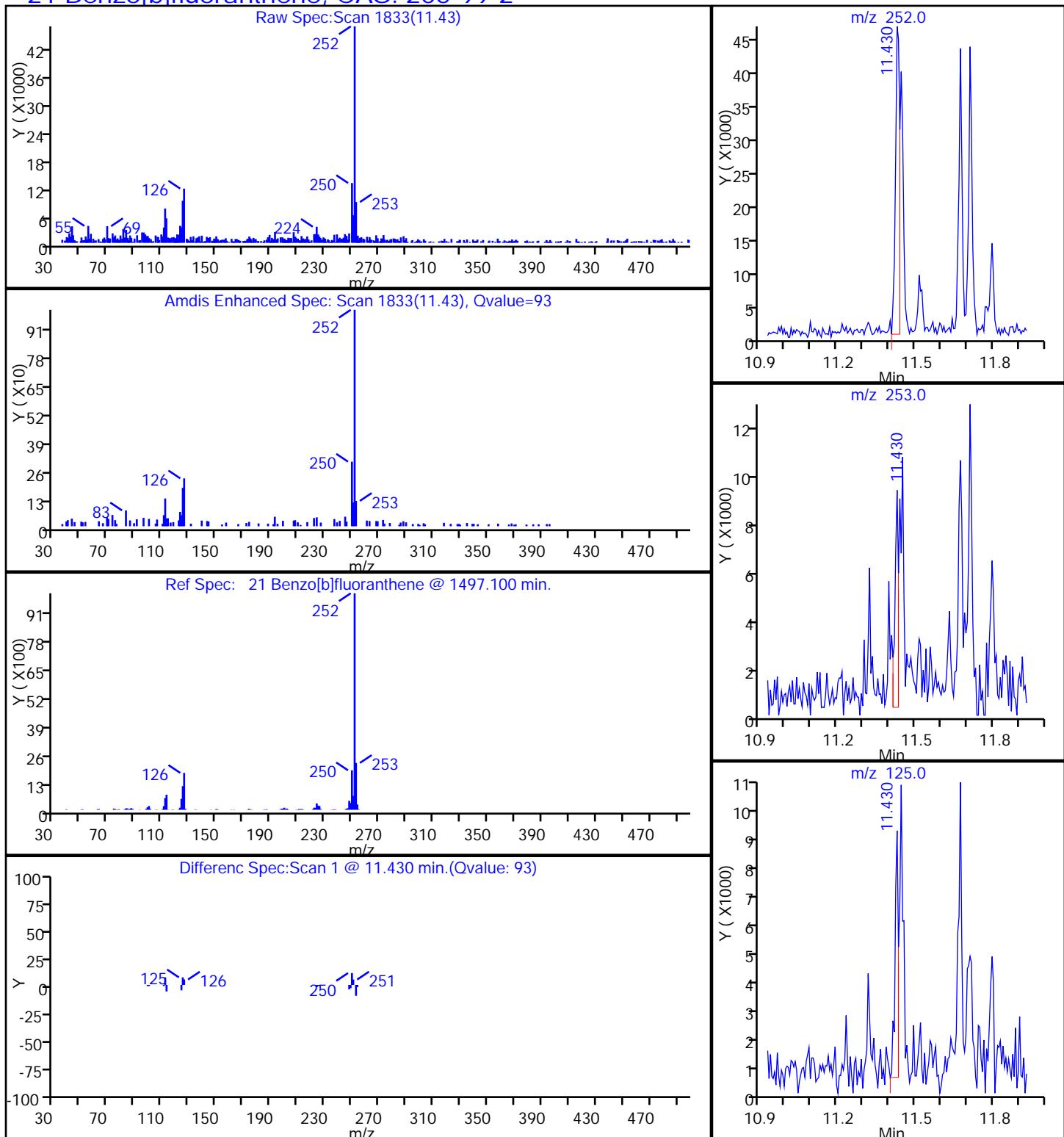
**19 Benzo[a]anthracene, CAS: 56-55-3**

TestAmerica Savannah  
 Data File: \\ChromNA\\Savannah\\ChromData\\CMSD\\20150818-22356.b\\1DF18006.D  
 Injection Date: 18-Aug-2015 15:14:30 Instrument ID: CMSD  
 Lims ID: 680-115692-A-20-A Lab Sample ID: 680-115692-20  
 Client ID: CV0511BBB-CS-12  
 Operator ID: LIMS import ALS Bottle#: 6 Worklist Smp#: 6  
 Injection Vol: 2.0 ul Dil. Factor: 10.0000  
 Method: 8270\_New\_LLPAH\_CMSD Limit Group: 8270D\_LL\_PAH  
 Column: Restek RXi-5Sil MS ( 0.25 mm) Detector: MS SCAN

**23 Benzo[a]pyrene, CAS: 50-32-8**

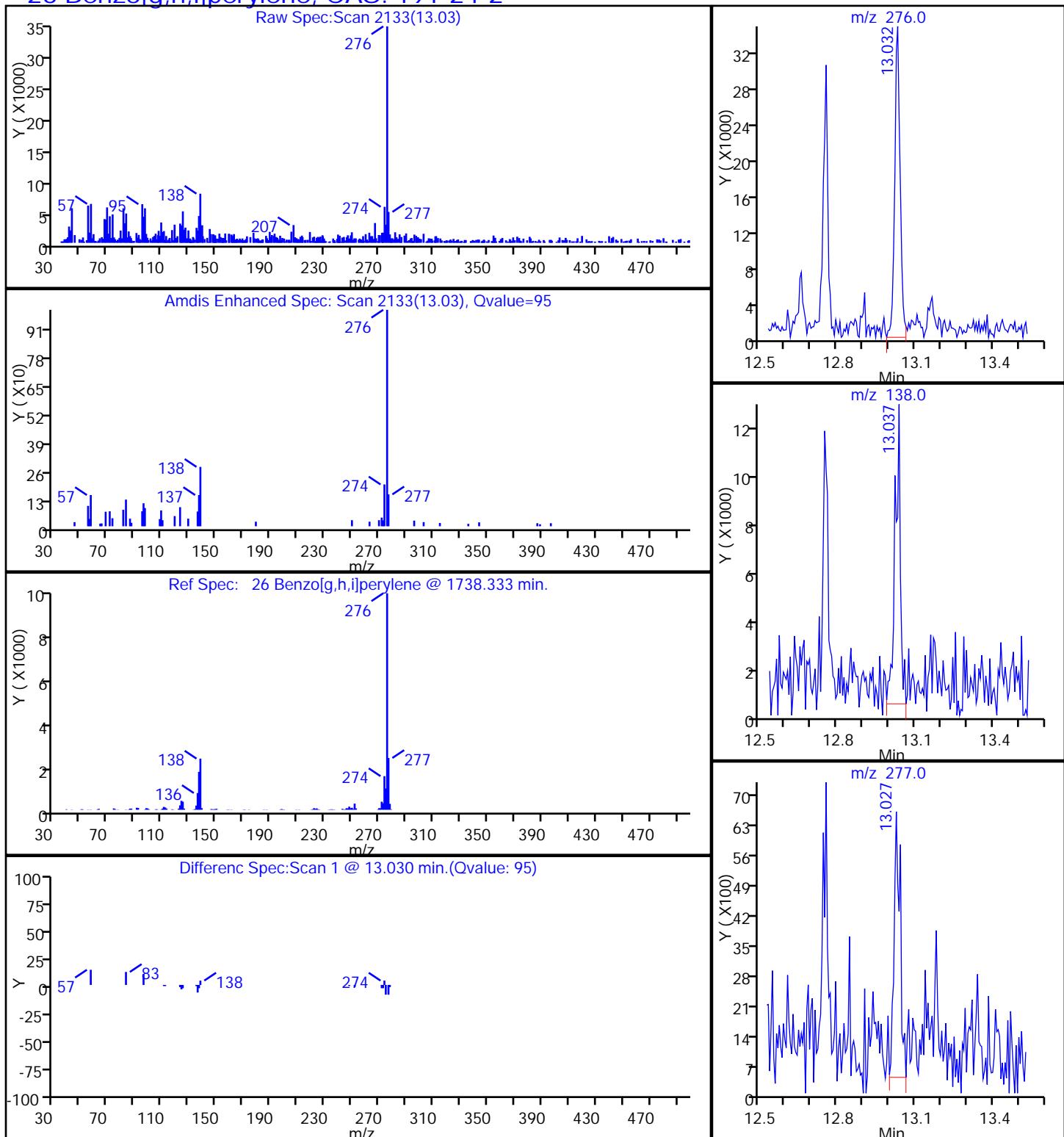
TestAmerica Savannah  
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 Injection Date: 18-Aug-2015 15:14:30 Instrument ID: CMSD  
 Lims ID: 680-115692-A-20-A Lab Sample ID: 680-115692-20  
 Client ID: CV0511BBB-CS-12  
 Operator ID: LIMS import ALS Bottle#: 6 Worklist Smp#: 6  
 Injection Vol: 2.0 ul Dil. Factor: 10.0000  
 Method: 8270\_New\_LLPAH\_CMSD Limit Group: 8270D\_LL\_PAH  
 Column: Restek RXi-5Sil MS ( 0.25 mm) Detector MS SCAN

### 21 Benzo[b]fluoranthene, CAS: 205-99-2



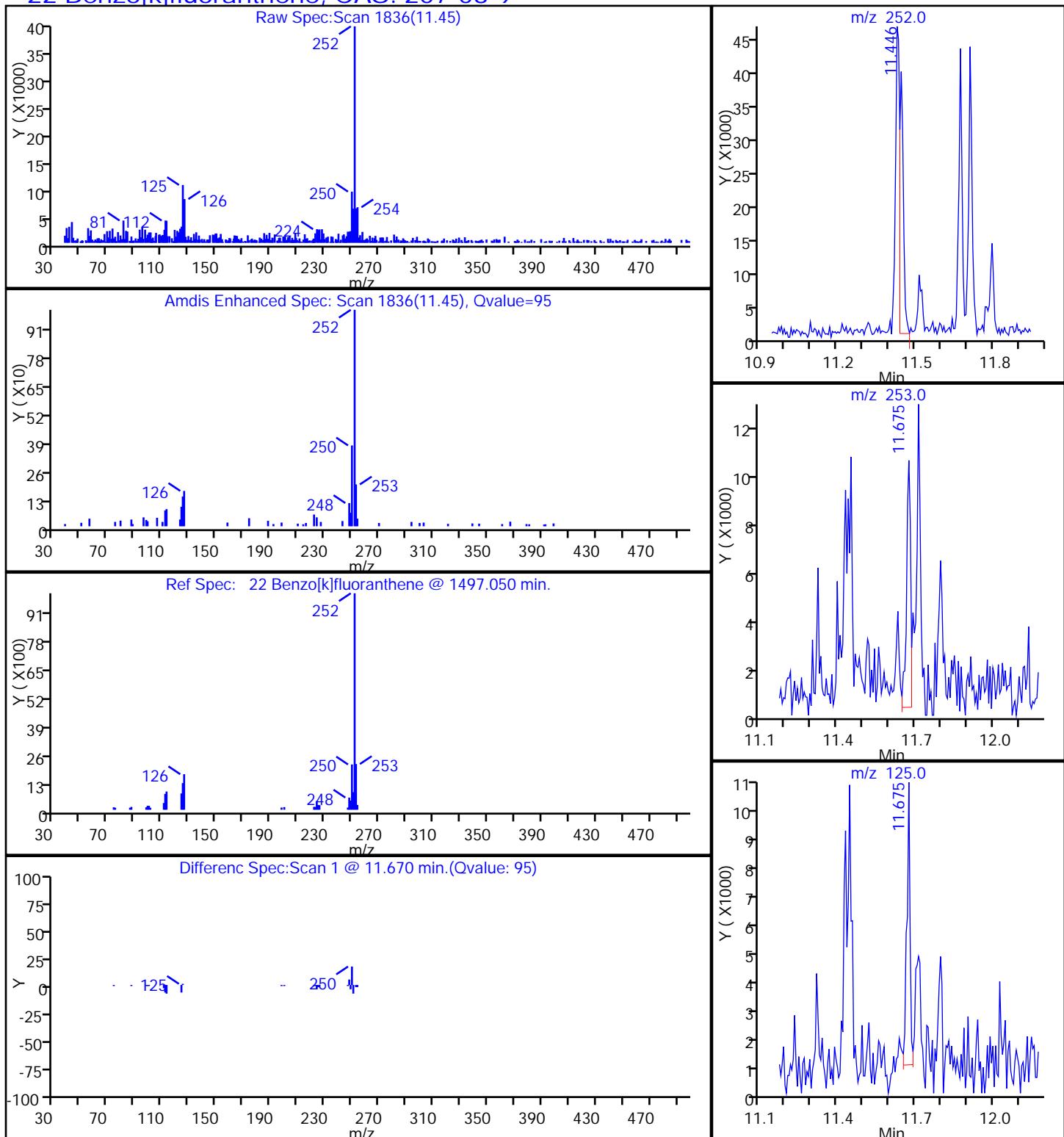
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 Injection Date: 18-Aug-2015 15:14:30 Instrument ID: CMSD  
 Lims ID: 680-115692-A-20-A Lab Sample ID: 680-115692-20  
 Client ID: CV0511BBB-CS-12  
 Operator ID: LIMS import ALS Bottle#: 6 Worklist Smp#: 6  
 Injection Vol: 2.0 ul Dil. Factor: 10.0000  
 Method: 8270\_New\_LLPAH\_CMSD Limit Group: 8270D\_LL\_PAH  
 Column: Restek RXi-5Sil MS ( 0.25 mm) Detector MS SCAN

### 26 Benzo[g,h,i]perylene, CAS: 191-24-2



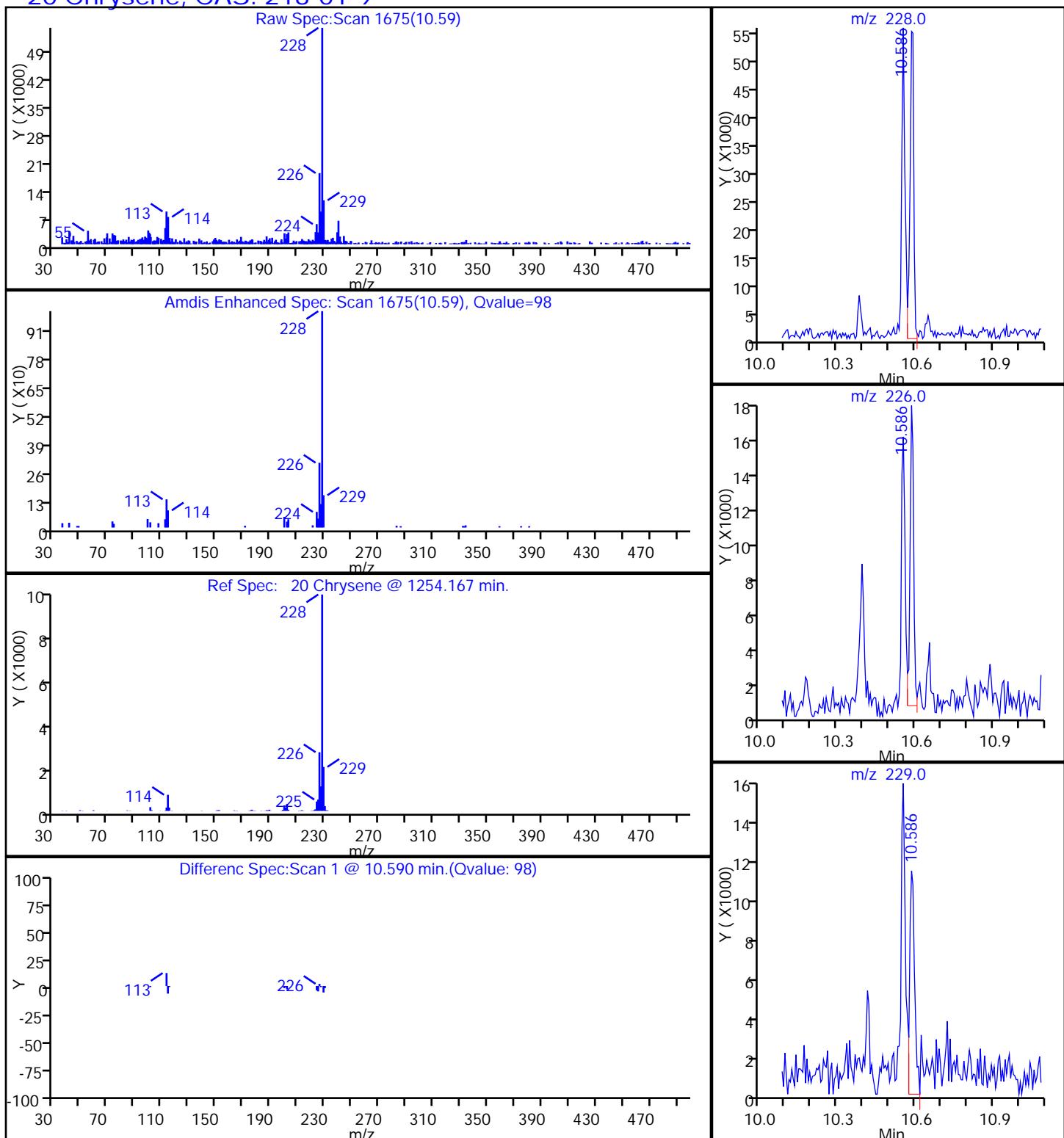
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 Lims ID: 680-115692-A-20-A Lab Sample ID: 680-115692-20  
 Client ID: CV0511BBB-CS-12  
 Operator ID: LIMS import ALS Bottle#: 6 Worklist Smp#: 6  
 Injection Vol: 2.0 ul Dil. Factor: 10.0000  
 Method: 8270\_New\_LLPAH\_CMSD Limit Group: 8270D\_LL\_PAH  
 Column: Restek RXi-5Sil MS ( 0.25 mm) Detector MS SCAN

### 22 Benzo[k]fluoranthene, CAS: 207-08-9

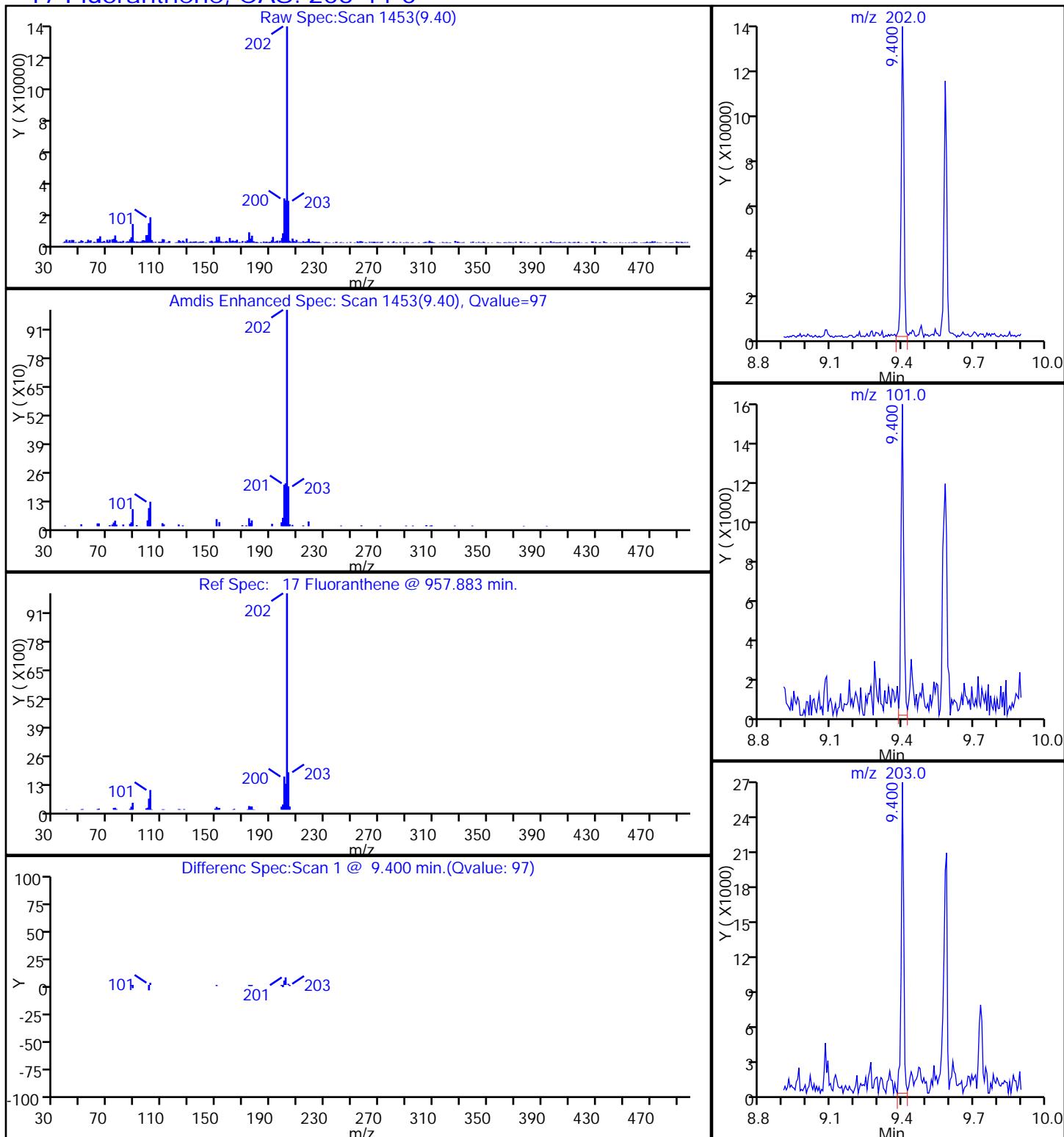


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 Lims ID: 680-115692-A-20-A Lab Sample ID: 680-115692-20  
 Client ID: CV0511BBB-CS-12  
 Operator ID: LIMS import ALS Bottle#: 6 Worklist Smp#: 6  
 Injection Vol: 2.0 ul Dil. Factor: 10.0000  
 Method: 8270\_New\_LLPAH\_CMSD Limit Group: 8270D\_LL\_PAH  
 Column: Restek RXi-5Sil MS ( 0.25 mm) Detector MS SCAN

### 20 Chrysene, CAS: 218-01-9

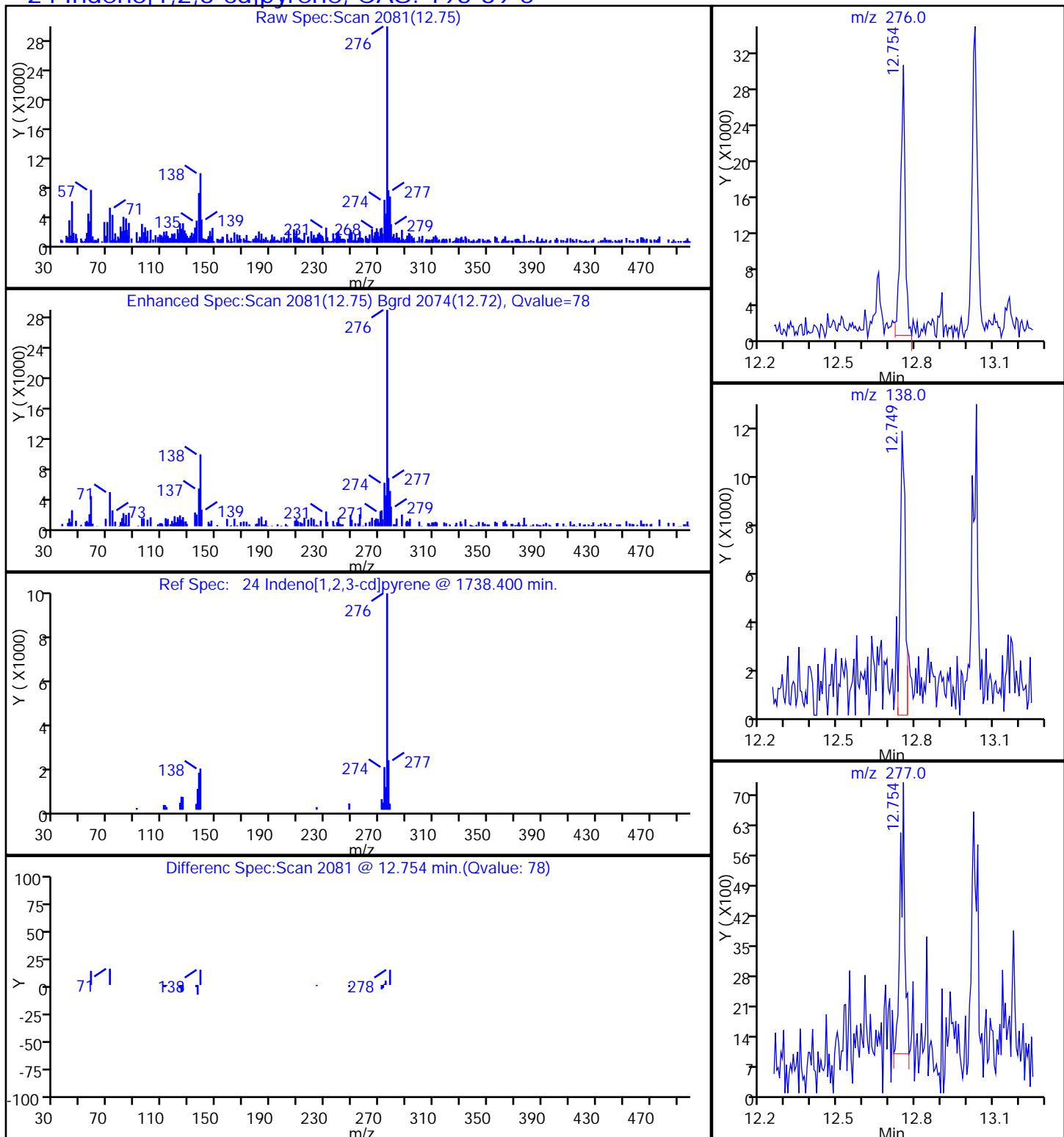


TestAmerica Savannah  
 Data File: \\ChromNA\\Savannah\\ChromData\\CMSD\\20150818-22356.b\\1DF18006.D  
 Injection Date: 18-Aug-2015 15:14:30 Instrument ID: CMSD  
 Lims ID: 680-115692-A-20-A Lab Sample ID: 680-115692-20  
 Client ID: CV0511BBB-CS-12  
 Operator ID: LIMS import ALS Bottle#: 6 Worklist Smp#: 6  
 Injection Vol: 2.0 ul Dil. Factor: 10.0000  
 Method: 8270\_New\_LLPAH\_CMSD Limit Group: 8270D\_LL\_PAH  
 Column: Restek RXi-5Sil MS ( 0.25 mm) Detector MS SCAN

**17 Fluoranthene, CAS: 206-44-0**

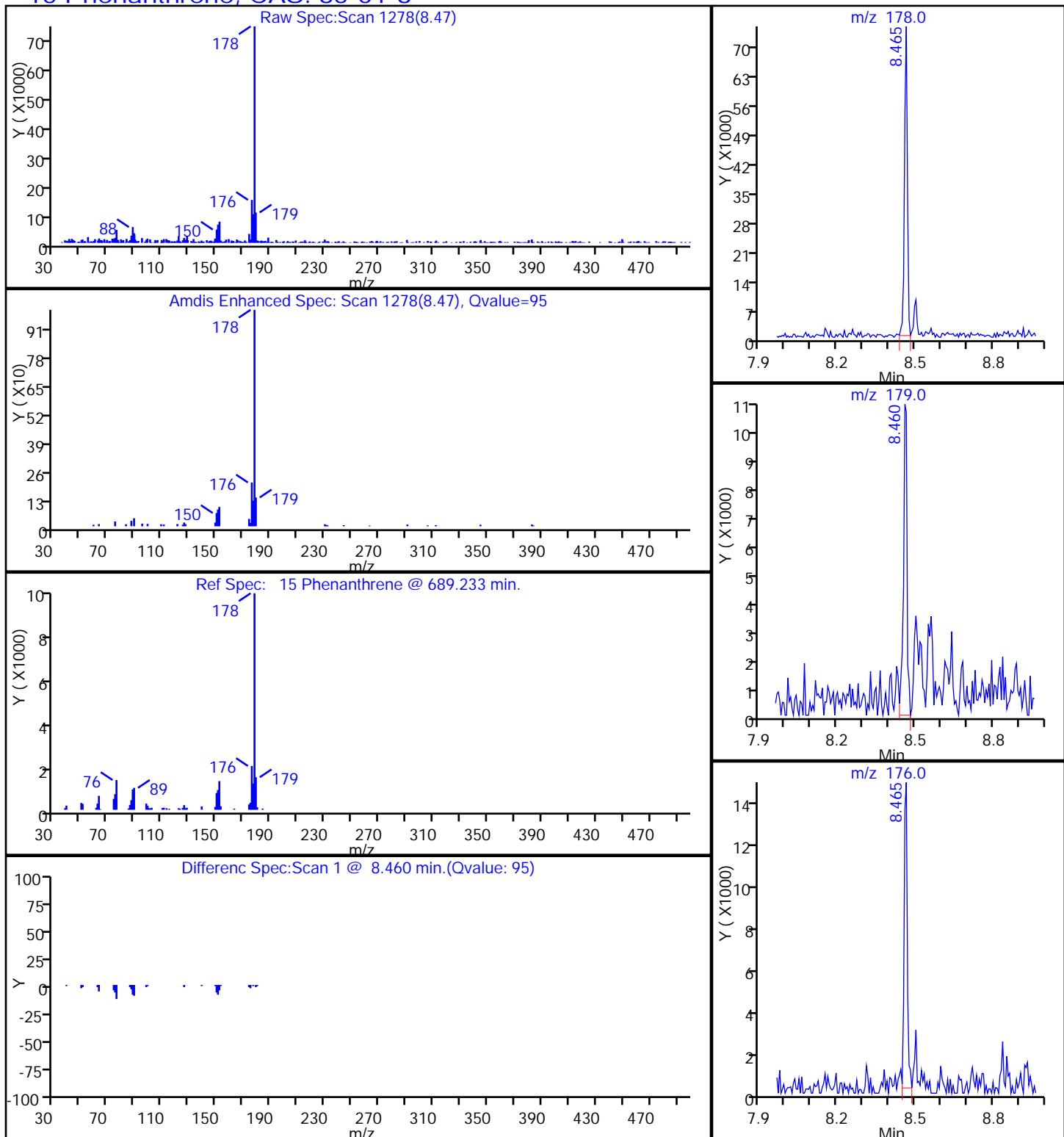
TestAmerica Savannah  
 Data File: \\ChromNA\\Savannah\\ChromData\\CMSD\\20150818-22356.b\\1DF18006.D  
 Injection Date: 18-Aug-2015 15:14:30 Instrument ID: CMSD  
 Lims ID: 680-115692-A-20-A Lab Sample ID: 680-115692-20  
 Client ID: CV0511BBB-CS-12  
 Operator ID: LIMS import ALS Bottle#: 6 Worklist Smp#: 6  
 Injection Vol: 2.0 ul Dil. Factor: 10.0000  
 Method: 8270\_New\_LLPAH\_CMSD Limit Group: 8270D\_LL\_PAH  
 Column: Restek RXi-5Sil MS ( 0.25 mm) Detector MS SCAN

## 24 Indeno[1,2,3-cd]pyrene, CAS: 193-39-5



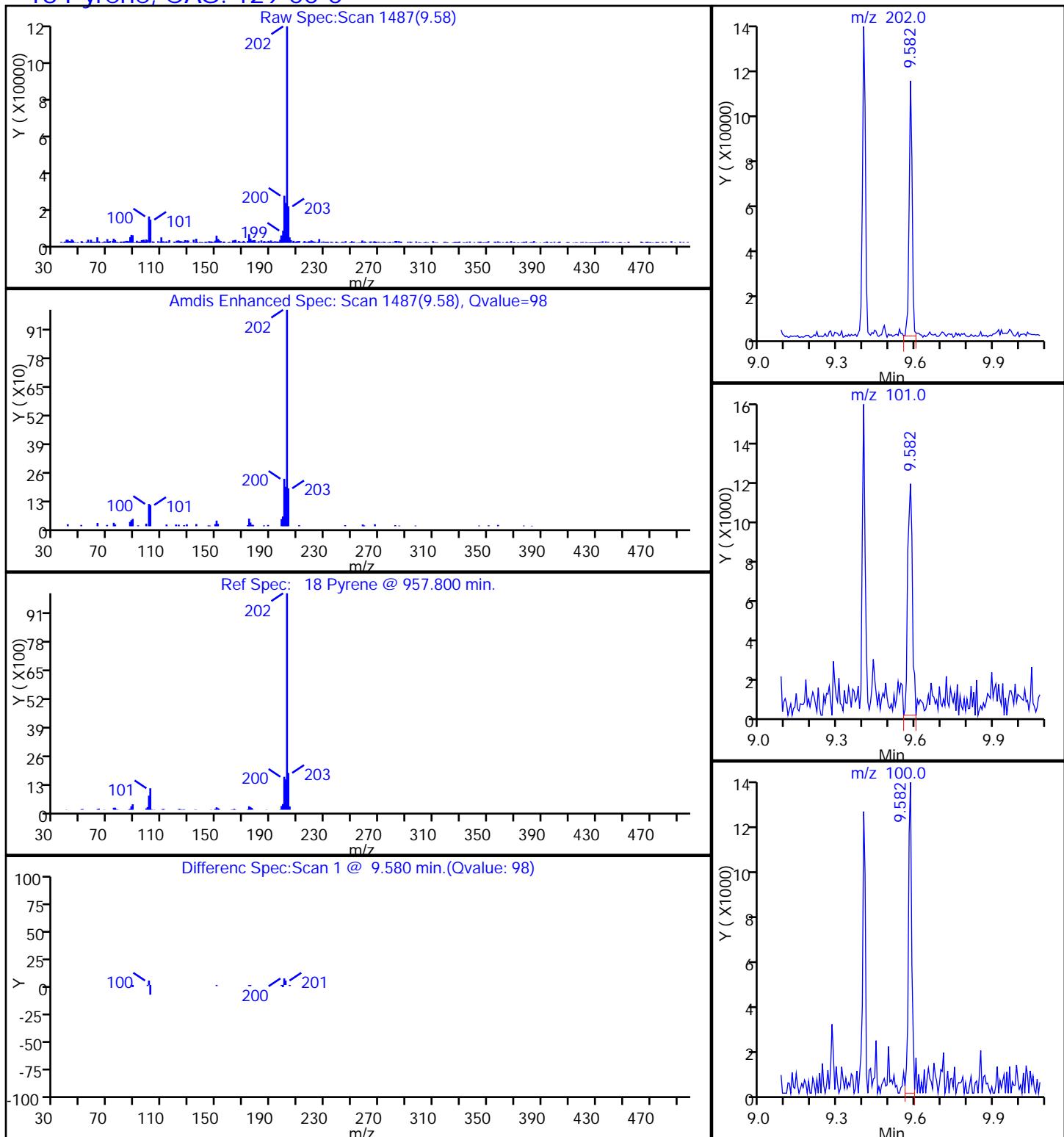
TestAmerica Savannah  
 Data File: \\ChromNA\\Savannah\\ChromData\\CMSD\\20150818-22356.b\\1DF18006.D  
 Injection Date: 18-Aug-2015 15:14:30 Instrument ID: CMSD  
 Lims ID: 680-115692-A-20-A Lab Sample ID: 680-115692-20  
 Client ID: CV0511BBB-CS-12  
 Operator ID: LIMS import ALS Bottle#: 6 Worklist Smp#: 6  
 Injection Vol: 2.0 ul Dil. Factor: 10.0000  
 Method: 8270\_New\_LLPAH\_CMSD Limit Group: 8270D\_LL\_PAH  
 Column: Restek RXi-5Sil MS ( 0.25 mm) Detector: MS SCAN

## 15 Phenanthrene, CAS: 85-01-8



TestAmerica Savannah  
 Data File: \\ChromNA\\Savannah\\ChromData\\CMSD\\20150818-22356.b\\1DF18006.D  
 Injection Date: 18-Aug-2015 15:14:30 Instrument ID: CMSD  
 Lims ID: 680-115692-A-20-A Lab Sample ID: 680-115692-20  
 Client ID: CV0511BBB-CS-12  
 Operator ID: LIMS import ALS Bottle#: 6 Worklist Smp#: 6  
 Injection Vol: 2.0 ul Dil. Factor: 10.0000  
 Method: 8270\_New\_LLPAH\_CMSD Limit Group: 8270D\_LL\_PAH  
 Column: Restek RXi-5Sil MS ( 0.25 mm) Detector: MS SCAN

## 18 Pyrene, CAS: 129-00-0



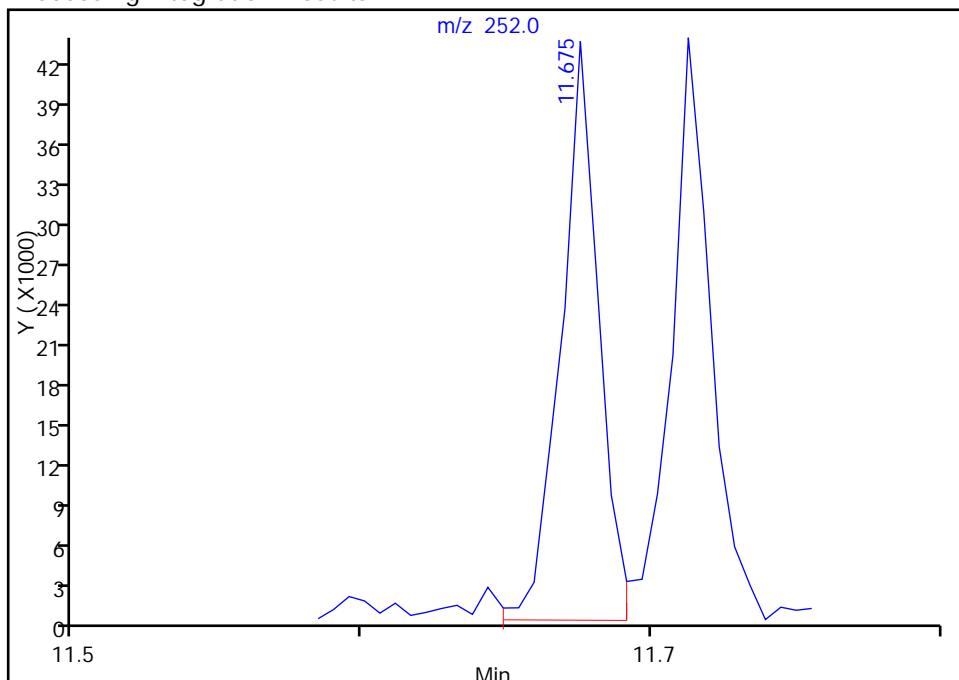
## TestAmerica Savannah

Data File: \\ChromNA\\Savannah\\ChromData\\CMSD\\20150818-22356.b\\1DF18006.D  
 Injection Date: 18-Aug-2015 15:14:30 Instrument ID: CMSD  
 Lims ID: 680-115692-A-20-A Lab Sample ID: 680-115692-20  
 Client ID: CV0511BBB-CS-12  
 Operator ID: LIMS import ALS Bottle#: 6 Worklist Smp#: 6  
 Injection Vol: 2.0 ul Dil. Factor: 10.0000  
 Method: 8270\_New\_LLPAH\_CMSD Limit Group: 8270D\_LL\_PAH  
 Column: Restek RXi-5Sil MS ( 0.25 mm) Detector: MS SCAN

## 22 Benzo[k]fluoranthene, CAS: 207-08-9

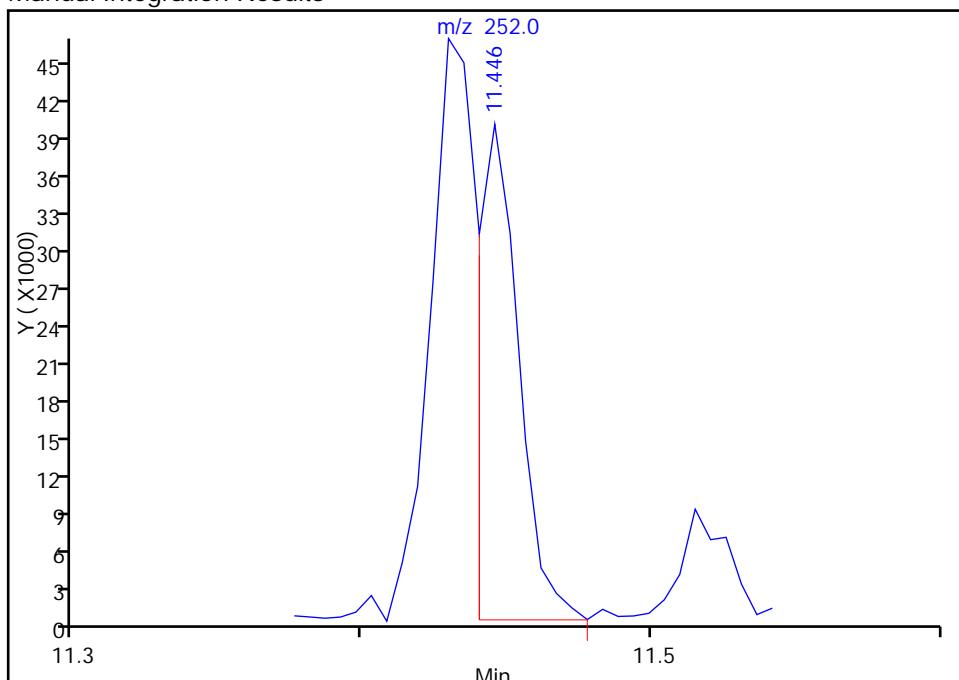
RT: 11.68  
 Area: 38754  
 Amount: 0.145003  
 Amount Units: ug/ml

## Processing Integration Results



RT: 11.45  
 Area: 38728  
 Amount: 0.144906  
 Amount Units: ug/ml

## Manual Integration Results



Reviewer: millsj, 19-Aug-2015 12:00:55

Audit Action: Manually Integrated

Audit Reason: Assign Peak

FORM VI  
GC/MS SEMI VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA  
CURVE EVALUATION

Lab Name: TestAmerica Savannah

Job No.: 680-115692-1

Analy Batch No.: 396042

SDG No.: 680-115692-01

Instrument ID: CMSD

GC Column: RXi- 5Sil M ID: 0.25(mm)

Heated Purge: (Y/N) N

Calibration Start Date: 08/13/2015 18:16

Calibration End Date: 08/13/2015 21:10

Calibration ID: 40931

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 680-396042/8	1DF13008.D
Level 2	IC 680-396042/7	1DF13007.D
Level 3	IC 680-396042/6	1DF13006.D
Level 4	IC 680-396042/5	1DF13005.D
Level 5	ICIS 680-396042/4	1DF13004.D
Level 6	IC 680-396042/3	1DF13003.D
Level 7	IC 680-396042/2	1DF13002.D

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5		B	M1	M2								
Naphthalene	0.9312 0.9494	0.9469 0.9874	0.8492	0.8810	0.8087	Ave		0.9077			0.7000	7.0		20.0			
2-Methylnaphthalene	0.6969 0.6470	0.5807 0.6471	0.5857	0.5162	0.5482	Ave		0.6031			0.4000	10.5		20.0			
1-Methylnaphthalene	0.5545 0.5633	0.5448 0.5539	0.4853	0.4928	0.4810	Ave		0.5251					7.0	20.0			
1,1'-Biphenyl	1.1665 1.3624	1.2073 1.5018	1.1531	1.1639	1.0818	Ave		1.2338				11.8	20.0				
Acenaphthylene	1.7793 2.0288	1.7315 2.0688	1.7235	1.6407	1.5496	Ave		1.7889			0.9000	10.8		20.0			
Acenaphthene	1.3561 1.2744	1.1574 1.3226	1.1372	1.0924	1.0429	Ave		1.1976			0.9000	10.0		20.0			
Dibenzofuran	1.5277 1.6553	1.2815 1.7564	1.6135	1.4833	1.4145	Ave		1.5332				10.4	20.0				
Fluorene	1.3444 1.3900	1.2181 1.4652	1.2202	1.2318	1.0884	Ave		1.2797			0.9000	9.9		20.0			
Phenanthrene	1.0237 1.1115	0.9471 1.2052	0.9270	0.9504	0.8691	Ave		1.0048			0.7000	11.7		20.0			
Anthracene	0.6735 0.8948	0.7370 0.9463	0.6388	0.7547	0.6965	QuaF		0.7567	0.0096582						0.9980		0.9900
Fluoranthene	0.9933 1.2752	0.9919 1.4287	1.0417	1.0760	0.9715	QuaF		1.0106	0.0211293						0.9990		0.9900
Pyrene	0.8976 1.1130	1.0315 1.1182	0.9633	1.0189	0.9055	Ave		1.0069			0.6000	8.9		20.0			
Benzo[a]anthracene	0.8128 1.0449	0.8679 1.1190	0.9134	0.8707	0.8656	Ave		0.9278			0.7000	12.0		20.0			
Chrysene	0.9386 1.0049	0.9557 1.0687	0.9461	0.9163	0.8302	Ave		0.9515			0.7000	7.8		20.0			

Note: The m1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI  
GC/MS SEMI VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA  
CURVE EVALUATION

Lab Name: TestAmerica Savannah Job No.: 680-115692-1 Analy Batch No.: 396042  
SDG No.: 680-115692-01  
Instrument ID: CMSD GC Column: RXi- 5Sil M ID: 0.25 (mm) Heated Purge: (Y/N) N  
Calibration Start Date: 08/13/2015 18:16 Calibration End Date: 08/13/2015 21:10 Calibration ID: 40931

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5		B	M1	M2								
Benzo[b]fluoranthene	0.8308 1.4229	0.9927 1.5387	1.1028	1.0290	1.1128	QuaF		1.1772	0.0183441						0.9990		0.9900
Benzo[k]fluoranthene	0.7993 1.3825	1.0242 1.4326	0.9552	0.9981	0.9988	QuaF		1.1491	0.0145473						0.9970		0.9900
Benzo[a]pyrene	0.7138 1.1083	0.7762 1.1732	0.8792	0.9026	0.8718	QuaF		0.9405	0.0118441						0.9990		0.9900
Indeno[1,2,3-cd]pyrene	0.8581 0.9476	0.8785 0.9697	0.7360	0.8185	0.8233	Ave		0.8617		0.2000	9.3	20.0					
Dibenz(a,h)anthracene	0.8065 0.9780	0.7936 1.0749	0.7197	0.7387	0.7481	QuaF		0.7891	0.0144757						0.9990		0.9900
Benzo[g,h,i]perylene	0.7782 1.0844	0.8357 1.1318	0.8686	0.8304	0.7633	QuaF		0.8876	0.0125111						0.9970		0.9900
o-Terphenyl	0.3989 0.4261	0.4839 0.4522	0.3785	0.3893	0.3582	Ave		0.4125			10.7	20.0					

Note: The m1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI  
GC/MS SEMI VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA  
RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Savannah

Job No.: 680-115692-1

Analy Batch No.: 396042

SDG No.: 680-115692-01

Instrument ID: CMSD

GC Column: RXi- 5Sil M ID: 0.25(mm)

Heated Purge: (Y/N) N

Calibration Start Date: 08/13/2015 18:16

Calibration End Date: 08/13/2015 21:10

Calibration ID: 40931

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 680-396042/8	1DF13008.D
Level 2	IC 680-396042/7	1DF13007.D
Level 3	IC 680-396042/6	1DF13006.D
Level 4	IC 680-396042/5	1DF13005.D
Level 5	ICIS 680-396042/4	1DF13004.D
Level 6	IC 680-396042/3	1DF13003.D
Level 7	IC 680-396042/2	1DF13002.D

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/ML)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5
Naphthalene	NPT	Ave	22013 2437596	47801 5351433	111031	212538	830043	0.100 10.0	0.200 20.0	0.500	1.00	5.00
2-Methylnaphthalene	NPT	Ave	16474 1661321	29315 3507038	76579	124525	562635	0.100 10.0	0.200 20.0	0.500	1.00	5.00
1-Methylnaphthalene	NPT	Ave	13108 1446195	27500 3001918	63458	118887	493693	0.100 10.0	0.200 20.0	0.500	1.00	5.00
1,1'-Biphenyl	ANT	Ave	15414 1904064	35184 4124299	81253	153992	636820	0.100 10.0	0.200 20.0	0.500	1.00	5.00
Acenaphthylene	ANT	Ave	23512 2835418	50459 5681268	121444	217069	912169	0.100 10.0	0.200 20.0	0.500	1.00	5.00
Acenaphthene	ANT	Ave	17920 1781008	33728 3632143	80133	144532	613900	0.100 10.0	0.200 20.0	0.500	1.00	5.00
Dibenzofuran	ANT	Ave	20188 2313362	37347 4823518	113691	196243	832637	0.100 10.0	0.200 20.0	0.500	1.00	5.00
Fluorene	ANT	Ave	17765 1942644	35499 4023630	85980	162976	640674	0.100 10.0	0.200 20.0	0.500	1.00	5.00
Phenanthrene	PHN	Ave	31431 3111264	61526 6358569	153861	271460	1168852	0.100 10.0	0.200 20.0	0.500	1.00	5.00
Anthracene	PHN	QuaF	20679 2504698	47880 4992734	106022	215561	936619	0.100 10.0	0.200 20.0	0.500	1.00	5.00
Fluoranthene	PHN	QuaF	30498 3569641	64440 7537864	172888	307336	1306457	0.100 10.0	0.200 20.0	0.500	1.00	5.00
Pyrene	CRY	Ave	31662 3725280	72078 7519540	171432	344666	1395176	0.100 10.0	0.200 20.0	0.500	1.00	5.00
Benzo[a]anthracene	CRY	Ave	28671 3497301	60642 7524627	162566	294533	1333738	0.100 10.0	0.200 20.0	0.500	1.00	5.00
Chrysene	CRY	Ave	33108 3363220	66780 7186717	168374	309954	1279248	0.100 10.0	0.200 20.0	0.500	1.00	5.00
Benzo[b]fluoranthene	PRY	QuaF	27016 3727156	68014 7687329	154950	298144	1501193	0.100 10.0	0.200 20.0	0.500	1.00	5.00

FORM VI  
GC/MS SEMI VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA  
RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Savannah Job No.: 680-115692-1 Analy Batch No.: 396042  
SDG No.: 680-115692-01

Instrument ID: CMSD GC Column: RXi- 5Sil M ID: 0.25 (mm) Heated Purge: (Y/N) N  
Calibration Start Date: 08/13/2015 18:16 Calibration End Date: 08/13/2015 21:10 Calibration ID: 40931

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/ML)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5
Benzo[k]fluoranthene	PRY	QuaF	25993 3621314	70169 7157089	134205	289197	1347467	0.100 10.0	0.200 20.0	0.500	1.00	5.00
Benzo[a]pyrene	PRY	QuaF	23213 2903174	53183 5861318	123530	261526	1176140	0.100 10.0	0.200 20.0	0.500	1.00	5.00
Indeno[1,2,3-cd]pyrene	CRY	Ave	30268 3171485	61386 6520862	130979	276879	1268594	0.100 10.0	0.200 20.0	0.500	1.00	5.00
Dibenz(a,h)anthracene	PRY	QuaF	26226 2561819	54371 5370193	101122	214037	1009176	0.100 10.0	0.200 20.0	0.500	1.00	5.00
Benzo[g,h,i]perylene	PRY	QuaF	25307 2840359	57254 5654614	122042	240614	1029650	0.100 10.0	0.200 20.0	0.500	1.00	5.00
o-Terphenyl	CRY	Ave	14071 1426176	33815 3041053	67364	131697	551894	0.100 10.0	0.200 20.0	0.500	1.00	5.00

Curve Type Legend:

Ave = Average ISTD

QuaF = Quadratic ISTD forced zero

TestAmerica Savannah  
Target Compound Quantitation Report

Data File: \\ChromNA\Savannah\ChromData\CMSD\20150813-22241.b\1DF13002.D  
 Lims ID: IC  
 Client ID:  
 Sample Type: IC Calib Level: 7  
 Inject. Date: 13-Aug-2015 18:16:30 ALS Bottle#: 2 Worklist Smp#: 2  
 Injection Vol: 2.0 ul Dil. Factor: 1.0000  
 Sample Info: IC  
 Misc. Info.: 680-0022241-002  
 Operator ID: LIMS import Instrument ID: CMSD  
 Sublist: chrom-8270\_New\_LLPAH\_CMSD\*sub1  
 Method: \\ChromNA\Savannah\ChromData\CMSD\20150813-22241.b\8270\_New\_LLPAH\_CMSD.m  
 Limit Group: 8270D\_LL\_PAH  
 Last Update: 14-Aug-2015 09:49:05 Calib Date: 13-Aug-2015 21:10:30  
 Integrator: RTE ID Type: Deconvolution ID  
 Quant Method: Internal Standard Quant By: Initial Calibration  
 Last ICal File: \\ChromNA\Savannah\ChromData\CMSD\20150813-22241.b\1DF13008.D  
 Column 1 : Restek RXi-5Sil MS ( 0.25 mm) Det: MS SCAN  
 Process Host: XAWRK008

First Level Reviewer: moorer

Date:

14-Aug-2015 09:17:55

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
* 1 Naphthalene-d8	136	5.895	5.895	0.000	99	541960	2.00	2.00	
* 2 Acenaphthene-d10	164	7.316	7.316	0.000	95	274619	2.00	2.00	
* 3 Phenanthrene-d10	188	8.502	8.496	0.006	98	527589	2.00	2.00	
* 4 Chrysene-d12	240	10.627	10.633	-0.006	99	672447	2.00	2.00	
* 5 Perylene-d12	264	11.845	11.861	-0.016	98	499596	2.00	2.00	
\$ 6 o-Terphenyl	230	8.812	8.811	0.001	87	3041053	20.0	21.9	
7 Naphthalene	128	5.911	5.911	0.000	99	5351433	20.0	21.8	
8 2-Methylnaphthalene	142	6.477	6.477	0.000	82	3507038	20.0	21.5	
9 1-Methylnaphthalene	142	6.558	6.557	0.001	90	3001918	20.0	21.1	
10 1,1'-Biphenyl	154	6.873	6.867	0.006	99	4124299	20.0	24.3	
11 Acenaphthylene	152	7.215	7.209	0.006	97	5681268	20.0	23.1	
12 Acenaphthene	153	7.343	7.337	0.006	95	3632143	20.0	22.1	
13 Dibenzofuran	168	7.492	7.487	0.005	99	4823518	20.0	22.9	
14 Fluorene	166	7.754	7.748	0.006	94	4023630	20.0	22.9	
15 Phenanthrene	178	8.523	8.512	0.011	96	6358569	20.0	24.0	
16 Anthracene	178	8.561	8.550	0.010	99	4992734	20.0	19.9	
17 Fluoranthene	202	9.463	9.452	0.011	98	7537864	20.0	20.0	
18 Pyrene	202	9.645	9.639	0.006	95	7519540	20.0	22.2	
19 Benzo[a]anthracene	228	10.617	10.617	0.000	97	7524627	20.0	24.1	
20 Chrysene	228	10.654	10.654	0.000	97	7186717	20.0	22.5	
21 Benzo[b]fluoranthene	252	11.503	11.514	-0.011	98	7687329	20.0	19.9	
22 Benzo[k]fluoranthene	252	11.530	11.535	-0.005	98	7157089	20.0	19.9	
23 Benzo[a]pyrene	252	11.797	11.802	-0.005	96	5861318	20.0	19.9	
24 Indeno[1,2,3-cd]pyrene	276	12.892	12.860	0.032	85	6520862	20.0	22.5	
25 Dibenz(a,h)anthracene	278	12.887	12.865	0.022	87	5370193	20.0	19.9	
26 Benzo[g,h,i]perylene	276	13.165	13.143	0.021	98	5654614	20.0	19.9	

Report Date: 14-Aug-2015 09:49:06

Chrom Revision: 2.2 23-Jul-2015 08:26:08

**Reagents:**

SMLLPAH20LVI\_00030

Amount Added: 1.00

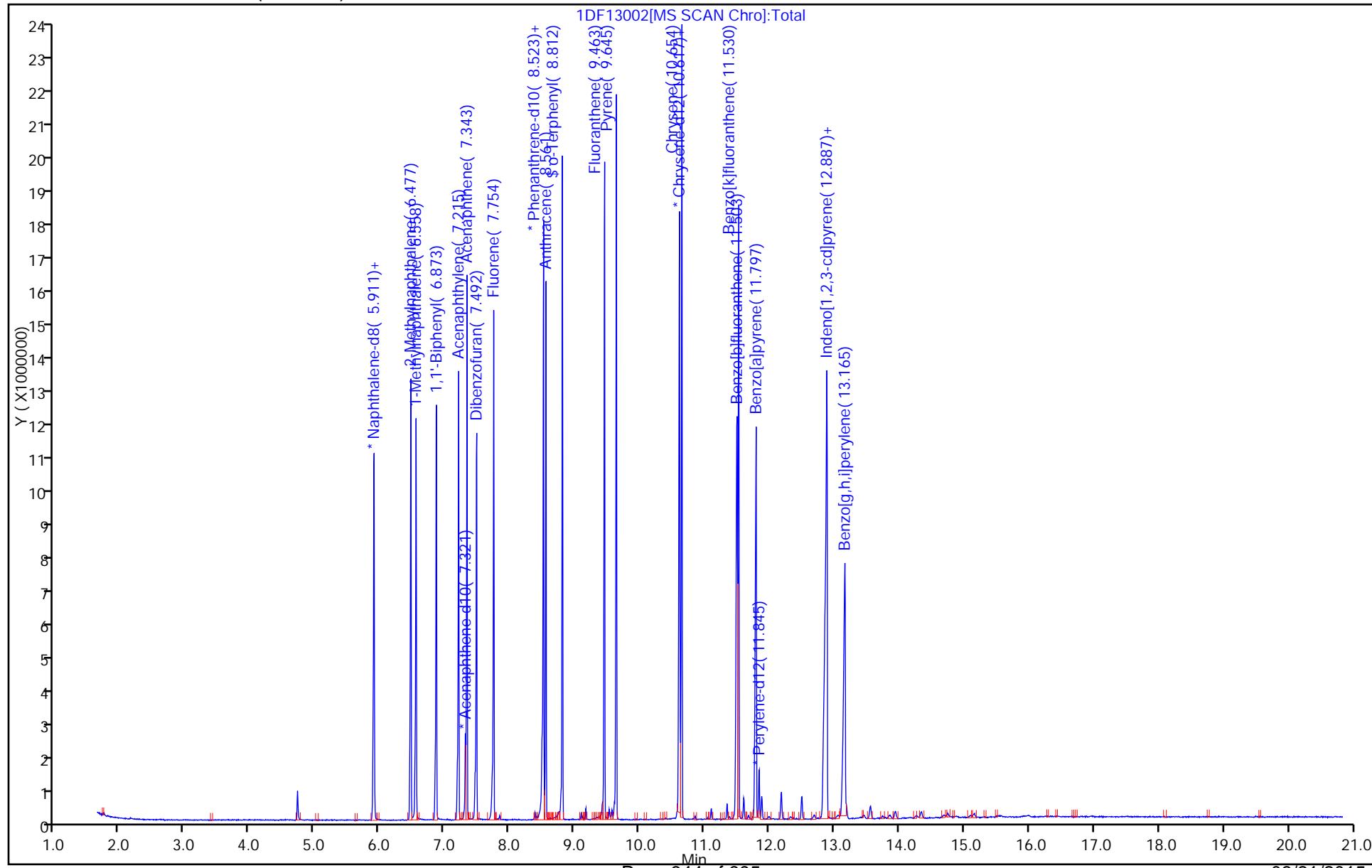
Units: mL

Report Date: 14-Aug-2015 09:49:06

Chrom Revision: 2.2 23-Jul-2015 08:26:08

## TestAmerica Savannah

Data File: \\ChromNA\\Savannah\\ChromData\CMSD\\20150813-22241.b\\1DF13002.D  
Injection Date: 13-Aug-2015 18:16:30 Instrument ID: CMSD  
Lims ID: IC Operator ID: LIMS import  
Client ID:  
Injection Vol: 2.0 ul Dil. Factor: 1.0000 Worklist Smp#: 2  
Method: 8270\_New\_LLPAH\_CMSD Limit Group: 8270D\_LL\_PAH  
Column: Restek RXi-5Sil MS ( 0.25 mm)



TestAmerica Savannah  
Target Compound Quantitation Report

Data File: \\ChromNA\Savannah\ChromData\CMSD\20150813-22241.b\1DF13003.D  
 Lims ID: IC  
 Client ID:  
 Sample Type: IC Calib Level: 6  
 Inject. Date: 13-Aug-2015 18:45:30 ALS Bottle#: 3 Worklist Smp#: 3  
 Injection Vol: 2.0 ul Dil. Factor: 1.0000  
 Sample Info: IC  
 Misc. Info.: 680-0022241-003  
 Operator ID: LIMS import Instrument ID: CMSD  
 Sublist: chrom-8270\_New\_LLPAH\_CMSD\*sub1  
 Method: \\ChromNA\Savannah\ChromData\CMSD\20150813-22241.b\8270\_New\_LLPAH\_CMSD.m  
 Limit Group: 8270D\_LL\_PAH  
 Last Update: 14-Aug-2015 09:49:07 Calib Date: 13-Aug-2015 21:10:30  
 Integrator: RTE ID Type: Deconvolution ID  
 Quant Method: Internal Standard Quant By: Initial Calibration  
 Last ICal File: \\ChromNA\Savannah\ChromData\CMSD\20150813-22241.b\1DF13008.D  
 Column 1 : Restek RXi-5Sil MS ( 0.25 mm) Det: MS SCAN  
 Process Host: XAWRK008

First Level Reviewer: moorer

Date:

14-Aug-2015 09:26:52

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
* 1 Naphthalene-d8	136	5.896	5.896	0.000	99	513515	2.00	2.00	
* 2 Acenaphthene-d10	164	7.317	7.317	0.000	92	279511	2.00	2.00	
* 3 Phenanthrene-d10	188	8.497	8.497	0.000	98	559848	2.00	2.00	
* 4 Chrysene-d12	240	10.633	10.633	0.000	96	669385	2.00	2.00	
* 5 Perylene-d12	264	11.857	11.857	0.000	98	523876	2.00	2.00	
\$ 6 o-Terphenyl	230	8.812	8.812	0.000	86	1426176	10.0	10.3	
7 Naphthalene	128	5.912	5.912	0.000	98	2437596	10.0	10.5	
8 2-Methylnaphthalene	142	6.478	6.478	0.000	81	1661321	10.0	10.7	
9 1-Methylnaphthalene	142	6.558	6.558	0.000	90	1446195	10.0	10.7	
10 1,1'-Biphenyl	154	6.868	6.868	0.000	97	1904064	10.0	11.0	
11 Acenaphthylene	152	7.215	7.215	0.000	97	2835418	10.0	11.3	
12 Acenaphthene	153	7.343	7.343	0.000	95	1781008	10.0	10.6	
13 Dibenzofuran	168	7.488	7.488	0.000	98	2313362	10.0	10.8	
14 Fluorene	166	7.749	7.749	0.000	82	1942644	10.0	10.9	
15 Phenanthrene	178	8.518	8.518	0.000	97	3111264	10.0	11.1	
16 Anthracene	178	8.556	8.556	0.000	99	2504698	10.0	10.4	
17 Fluoranthene	202	9.458	9.458	0.000	98	3569641	10.0	10.4	
18 Pyrene	202	9.640	9.640	0.000	98	3725280	10.0	11.1	
19 Benzo[a]anthracene	228	10.617	10.617	0.000	98	3497301	10.0	11.3	
20 Chrysene	228	10.655	10.655	0.000	96	3363220	10.0	10.6	
21 Benzo[b]fluoranthene	252	11.515	11.515	0.000	98	3727156	10.0	10.4	
22 Benzo[k]fluoranthene	252	11.536	11.536	0.000	95	3621314	10.0	10.6	
23 Benzo[a]pyrene	252	11.803	11.803	0.000	95	2903174	10.0	10.4	
24 Indeno[1,2,3-cd]pyrene	276	12.877	12.877	0.000	82	3171485	10.0	11.0	
25 Dibenz(a,h)anthracene	278	12.882	12.882	0.000	86	2561819	10.0	10.4	
26 Benzo[g,h,i]perylene	276	13.160	13.160	0.000	93	2840359	10.0	10.6	

Report Date: 14-Aug-2015 09:49:07

Chrom Revision: 2.2 23-Jul-2015 08:26:08

**Reagents:**

SMLLPAH10LVI\_00026

Amount Added: 1.00

Units: mL

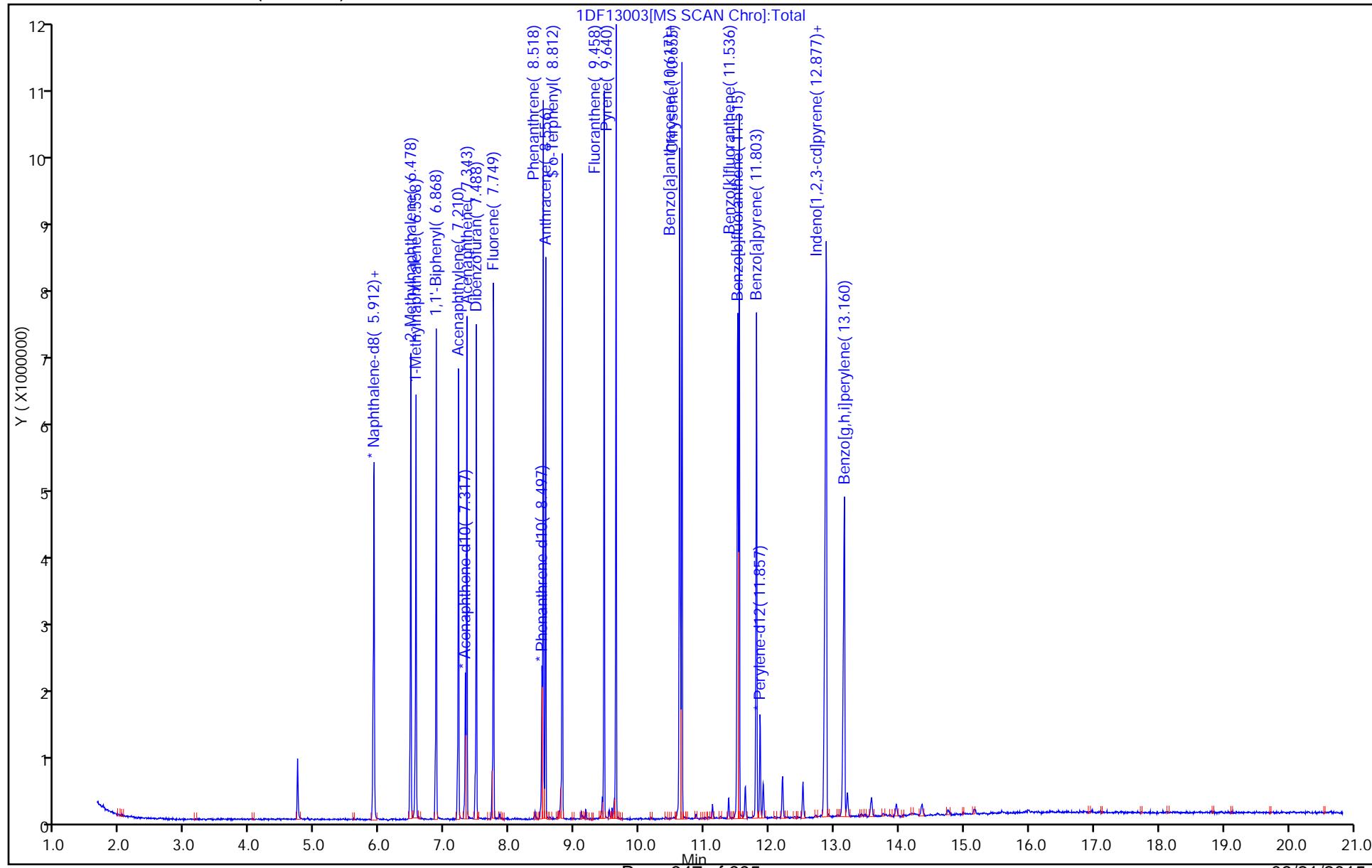
Report Date: 14-Aug-2015 09:49:08

Chrom Revision: 2.2 23-Jul-2015 08:26:08

## TestAmerica Savannah

Data File: \\ChromNA\\Savannah\\ChromData\CMSD\\20150813-22241.b\\1DF13003.D  
Injection Date: 13-Aug-2015 18:45:30 Instrument ID: CMSD  
Lims ID: IC Operator ID: LIMS import  
Client ID:  
Injection Vol: 2.0 ul Dil. Factor: 1.0000 ALS Bottle#: 3  
Method: 8270\_New\_LLPAH\_CMSD Limit Group: 8270D\_LL\_PAH  
Column: Restek RXi-5Sil MS ( 0.25 mm)

Worklist Smp#: 3



TestAmerica Savannah  
Target Compound Quantitation Report

Data File: \\ChromNA\Savannah\ChromData\CMSD\20150813-22241.b\1DF13004.D  
 Lims ID: ICIS  
 Client ID:  
 Sample Type: ICIS Calib Level: 5  
 Inject. Date: 13-Aug-2015 19:14:30 ALS Bottle#: 4 Worklist Smp#: 4  
 Injection Vol: 2.0 ul Dil. Factor: 1.0000  
 Sample Info: ICIS  
 Misc. Info.: 680-0022241-004  
 Operator ID: LIMS import Instrument ID: CMSD  
 Sublist: chrom-8270\_New\_LLPAH\_CMSD\*sub1  
 Method: \\ChromNA\Savannah\ChromData\CMSD\20150813-22241.b\8270\_New\_LLPAH\_CMSD.m  
 Limit Group: 8270D\_LL\_PAH  
 Last Update: 14-Aug-2015 09:49:09 Calib Date: 13-Aug-2015 21:10:30  
 Integrator: RTE ID Type: Deconvolution ID  
 Quant Method: Internal Standard Quant By: Initial Calibration  
 Last ICal File: \\ChromNA\Savannah\ChromData\CMSD\20150813-22241.b\1DF13008.D  
 Column 1 : Restek RXi-5Sil MS ( 0.25 mm) Det: MS SCAN  
 Process Host: XAWRK008

First Level Reviewer: moorer

Date:

14-Aug-2015 09:27:51

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
* 1 Naphthalene-d8	136	5.895	5.895	0.000	99	410544	2.00	2.00	
* 2 Acenaphthene-d10	164	7.316	7.316	0.000	96	235457	2.00	2.00	
* 3 Phenanthrene-d10	188	8.496	8.496	0.000	98	537929	2.00	2.00	
* 4 Chrysene-d12	240	10.633	10.633	0.000	98	616321	2.00	2.00	
* 5 Perylene-d12	264	11.861	11.861	0.000	99	539610	2.00	2.00	
\$ 6 o-Terphenyl	230	8.811	8.811	0.000	88	551894	5.00	4.34	
7 Naphthalene	128	5.911	5.911	0.000	98	830043	5.00	4.45	
8 2-Methylnaphthalene	142	6.477	6.477	0.000	82	562635	5.00	4.54	
9 1-Methylnaphthalene	142	6.557	6.557	0.000	90	493693	5.00	4.58	
10 1,1'-Biphenyl	154	6.867	6.867	0.000	98	636820	5.00	4.38	
11 Acenaphthylene	152	7.209	7.209	0.000	96	912169	5.00	4.33	
12 Acenaphthene	153	7.337	7.337	0.000	94	613900	5.00	4.35	
13 Dibenzofuran	168	7.487	7.487	0.000	97	832637	5.00	4.61	
14 Fluorene	166	7.748	7.748	0.000	81	640674	5.00	4.25	
15 Phenanthrene	178	8.512	8.512	0.000	97	1168852	5.00	4.32	
16 Anthracene	178	8.550	8.550	0.000	98	936619	5.00	4.36	
17 Fluoranthene	202	9.452	9.452	0.000	97	1306457	5.00	4.40	
18 Pyrene	202	9.639	9.639	0.000	98	1395176	5.00	4.50	
19 Benzo[a]anthracene	228	10.617	10.617	0.000	97	1333738	5.00	4.67	
20 Chrysene	228	10.654	10.654	0.000	95	1279248	5.00	4.36	
21 Benzo[b]fluoranthene	252	11.514	11.514	0.000	98	1501193	5.00	4.42	
22 Benzo[k]fluoranthene	252	11.535	11.535	0.000	98	1347467	5.00	4.13	
23 Benzo[a]pyrene	252	11.802	11.802	0.000	95	1176140	5.00	4.39	
24 Indeno[1,2,3-cd]pyrene	276	12.860	12.860	0.000	89	1268594	5.00	4.78	
25 Dibenz(a,h)anthracene	278	12.865	12.865	0.000	94	1009176	5.00	4.39	
26 Benzo[g,h,i]perylene	276	13.143	13.143	0.000	97	1029650	5.00	4.07	

Report Date: 14-Aug-2015 09:49:10

Chrom Revision: 2.2 23-Jul-2015 08:26:08

**Reagents:**

SMLLPAH5.0LVI\_00029

Amount Added: 1.00

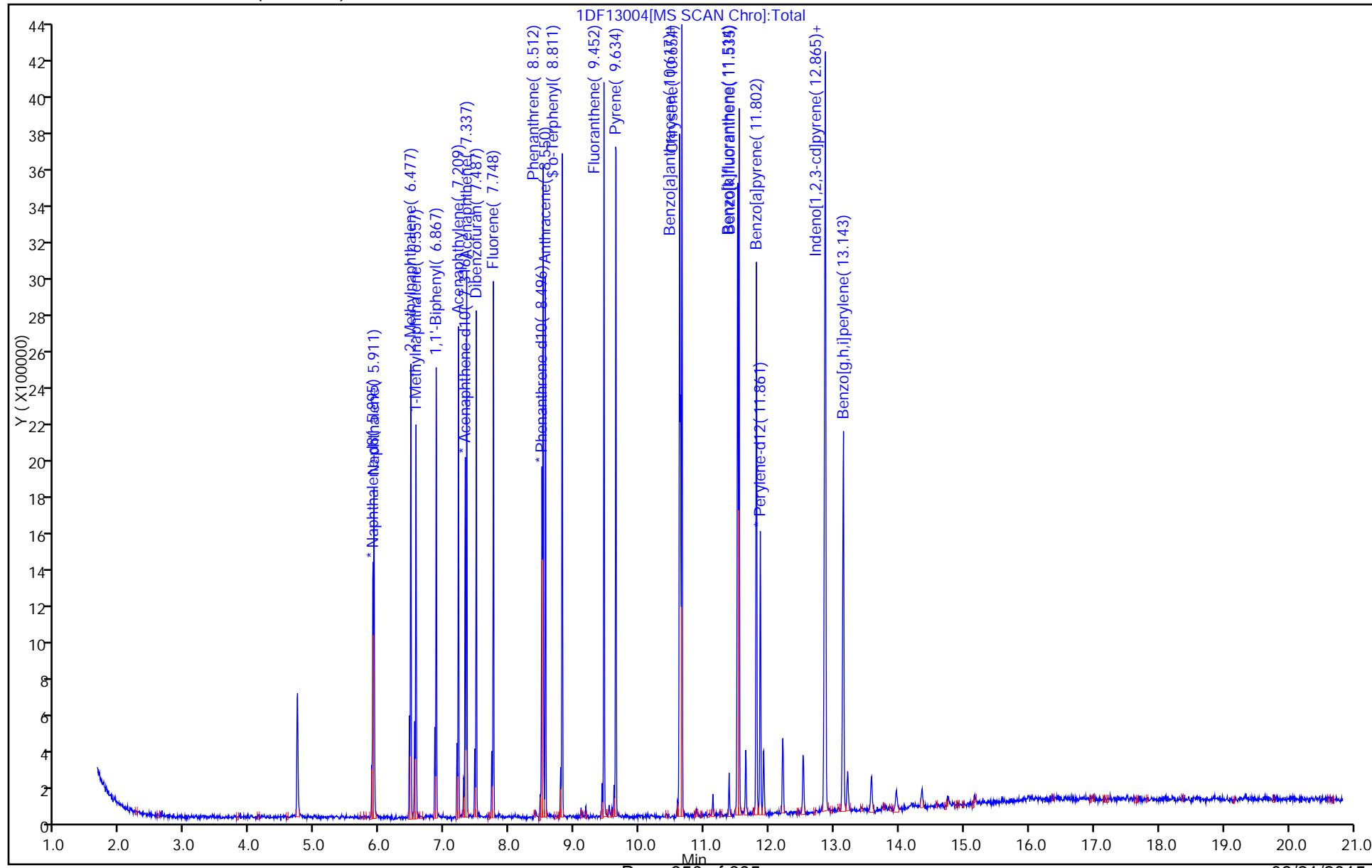
Units: mL

Report Date: 14-Aug-2015 09:49:10

Chrom Revision: 2.2 23-Jul-2015 08:26:08

## TestAmerica Savannah

Data File: \\ChromNA\\Savannah\\ChromData\CMSD\\20150813-22241.b\\1DF13004.D  
 Injection Date: 13-Aug-2015 19:14:30 Instrument ID: CMSD  
 Lims ID: ICIS Operator ID: LIMS import  
 Client ID:  
 Injection Vol: 2.0 ul Worklist Smp#: 4  
 Method: 8270\_New\_LLPAH\_CMSD Dil. Factor: 1.0000  
 Column: Restek RXi-5Sil MS ( 0.25 mm) Limit Group: 8270D\_LL\_PAH



TestAmerica Savannah  
Target Compound Quantitation Report

Data File: \\ChromNA\Savannah\ChromData\CMSD\20150813-22241.b\1DF13005.D  
 Lims ID: IC  
 Client ID:  
 Sample Type: IC Calib Level: 4  
 Inject. Date: 13-Aug-2015 19:43:30 ALS Bottle#: 5 Worklist Smp#: 5  
 Injection Vol: 2.0 ul Dil. Factor: 1.0000  
 Sample Info: IC  
 Misc. Info.: 680-0022241-005  
 Operator ID: LIMS import Instrument ID: CMSD  
 Sublist: chrom-8270\_New\_LLPAH\_CMSD\*sub1  
 Method: \\ChromNA\Savannah\ChromData\CMSD\20150813-22241.b\8270\_New\_LLPAH\_CMSD.m  
 Limit Group: 8270D\_LL\_PAH  
 Last Update: 14-Aug-2015 09:49:11 Calib Date: 13-Aug-2015 21:10:30  
 Integrator: RTE ID Type: Deconvolution ID  
 Quant Method: Internal Standard Quant By: Initial Calibration  
 Last ICal File: \\ChromNA\Savannah\ChromData\CMSD\20150813-22241.b\1DF13008.D  
 Column 1 : Restek RXi-5Sil MS ( 0.25 mm) Det: MS SCAN  
 Process Host: XAWRK008

First Level Reviewer: moorer

Date:

14-Aug-2015 09:29:33

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
* 1 Naphthalene-d8	136	5.896	5.895	0.001	99	482514	2.00	2.00	
* 2 Acenaphthene-d10	164	7.317	7.316	0.001	95	264608	2.00	2.00	
* 3 Phenanthrene-d10	188	8.497	8.496	0.001	98	571276	2.00	2.00	
* 4 Chrysene-d12	240	10.623	10.633	-0.010	99	676566	2.00	2.00	
* 5 Perylene-d12	264	11.852	11.861	-0.009	99	579511	2.00	2.00	
\$ 6 o-Terphenyl	230	8.807	8.811	-0.004	86	131697	1.00	0.9439	
7 Naphthalene	128	5.912	5.911	0.001	98	212538	1.00	0.9706	
8 2-Methylnaphthalene	142	6.479	6.477	0.001	79	124525	1.00	0.8558	
9 1-Methylnaphthalene	142	6.559	6.557	0.002	93	118887	1.00	0.9385	
10 1,1'-Biphenyl	154	6.868	6.867	0.001	96	153992	1.00	0.9433	
11 Acenaphthylene	152	7.210	7.209	0.001	90	217069	1.00	0.9172	
12 Acenaphthene	153	7.338	7.337	0.001	80	144532	1.00	0.9122	
13 Dibenzofuran	168	7.488	7.487	0.001	98	196243	1.00	0.9674	
14 Fluorene	166	7.750	7.748	0.002	92	162976	1.00	0.9626	
15 Phenanthrene	178	8.513	8.512	0.001	97	271460	1.00	0.9458	
16 Anthracene	178	8.551	8.550	0.001	98	215561	1.00	0.9850	
17 Fluoranthene	202	9.448	9.452	-0.004	96	307336	1.00	1.04	
18 Pyrene	202	9.635	9.639	-0.004	98	344666	1.00	1.01	
19 Benzo[a]anthracene	228	10.612	10.617	-0.005	96	294533	1.00	0.9385	
20 Chrysene	228	10.645	10.654	-0.009	95	309954	1.00	0.9630	
21 Benzo[b]fluoranthene	252	11.499	11.514	-0.015	97	298144	1.00	0.8625	
22 Benzo[k]fluoranthene	252	11.520	11.535	-0.015	73	289197	1.00	0.8592	
23 Benzo[a]pyrene	252	11.788	11.802	-0.014	87	261526	1.00	0.9484	
24 Indeno[1,2,3-cd]pyrene	276	12.840	12.860	-0.020	90	276879	1.00	0.9499	
25 Dibenz(a,h)anthracene	278	12.850	12.865	-0.015	93	214037	1.00	0.9205	
26 Benzo[g,h,i]perylene	276	13.123	13.143	-0.020	96	240614	1.00	0.9235	

Report Date: 14-Aug-2015 09:49:12

Chrom Revision: 2.2 23-Jul-2015 08:26:08

**Reagents:**

SMLLPAH1.0LVI\_00025

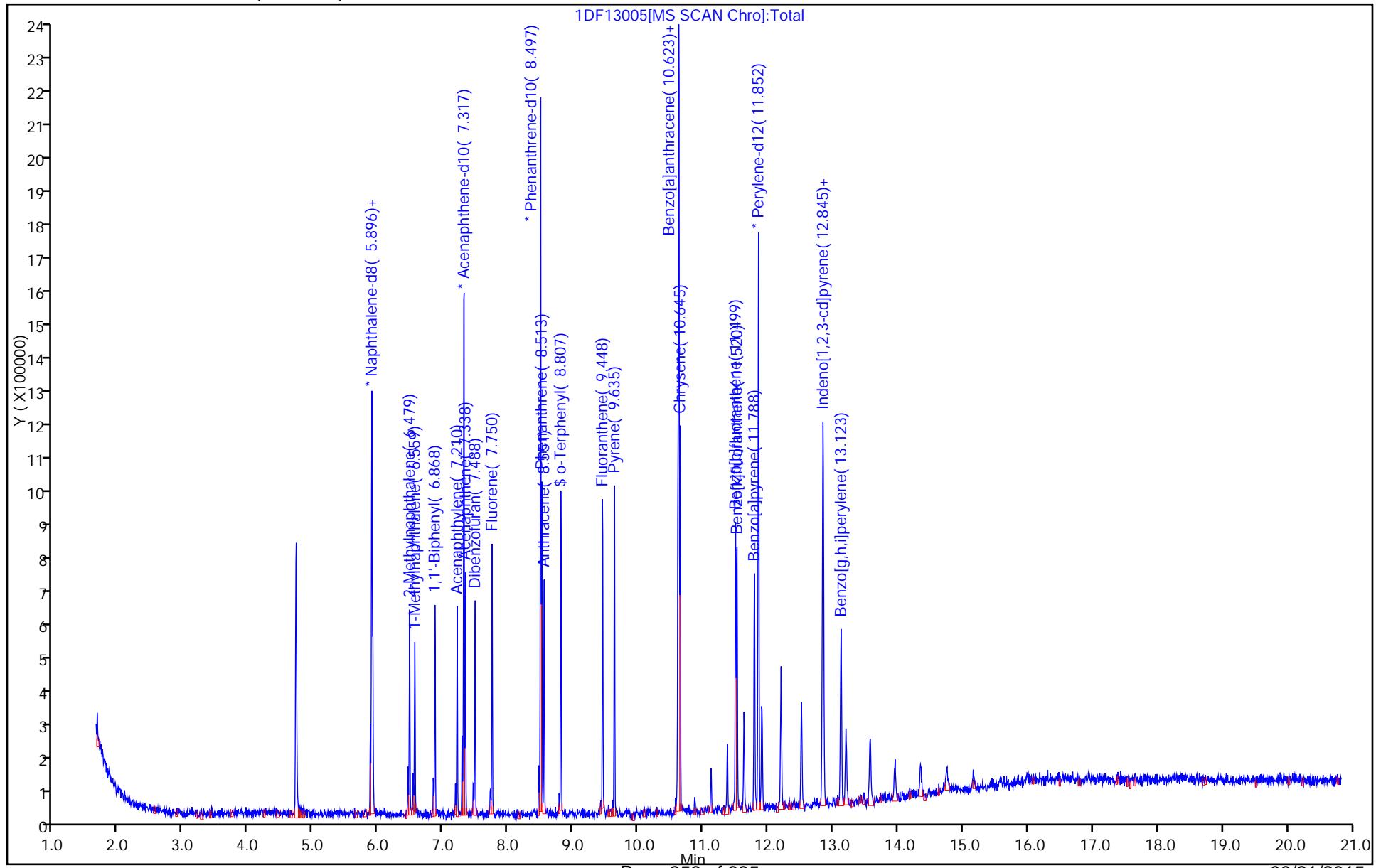
Amount Added: 1.00

Units: mL

Report Date: 14-Aug-2015 09:49:12

Chrom Revision: 2.2 23-Jul-2015 08:26:08

TestAmerica Savannah  
 Data File: \\ChromNA\\Savannah\\ChromData\\CMSD\\20150813-22241.b\\1DF13005.D  
 Injection Date: 13-Aug-2015 19:43:30 Instrument ID: CMSD  
 Lims ID: IC Operator ID: LIMS import  
 Client ID:  
 Injection Vol: 2.0 ul Worklist Smp#: 5  
 Method: 8270\_New\_LLPAH\_CMSD Dil. Factor: 1.0000  
 Column: Restek RXi-5Sil MS ( 0.25 mm) Limit Group: 8270D\_LL\_PAH



TestAmerica Savannah  
Target Compound Quantitation Report

Data File: \\ChromNA\Savannah\ChromData\CMSD\20150813-22241.b\1DF13006.D  
 Lims ID: IC  
 Client ID:  
 Sample Type: IC Calib Level: 3  
 Inject. Date: 13-Aug-2015 20:12:30 ALS Bottle#: 6 Worklist Smp#: 6  
 Injection Vol: 2.0 ul Dil. Factor: 1.0000  
 Sample Info: IC  
 Misc. Info.: 680-0022241-006  
 Operator ID: LIMS import Instrument ID: CMSD  
 Sublist: chrom-8270\_New\_LLPAH\_CMSD\*sub1  
 Method: \\ChromNA\Savannah\ChromData\CMSD\20150813-22241.b\8270\_New\_LLPAH\_CMSD.m  
 Limit Group: 8270D\_LL\_PAH  
 Last Update: 14-Aug-2015 09:49:14 Calib Date: 13-Aug-2015 21:10:30  
 Integrator: RTE ID Type: Deconvolution ID  
 Quant Method: Internal Standard Quant By: Initial Calibration  
 Last ICal File: \\ChromNA\Savannah\ChromData\CMSD\20150813-22241.b\1DF13008.D  
 Column 1 : Restek RXi-5Sil MS ( 0.25 mm) Det: MS SCAN  
 Process Host: XAWRK008

First Level Reviewer: moorer

Date:

14-Aug-2015 09:30:27

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
* 1 Naphthalene-d8	136	5.893	5.895	-0.002	99	523004	2.00	2.00	
* 2 Acenaphthene-d10	164	7.314	7.316	-0.002	87	281852	2.00	2.00	
* 3 Phenanthrene-d10	188	8.494	8.496	-0.002	98	663894	2.00	2.00	
* 4 Chrysene-d12	240	10.620	10.633	-0.013	99	711881	2.00	2.00	
* 5 Perylene-d12	264	11.843	11.861	-0.018	99	562013	2.00	2.00	
\$ 6 o-Terphenyl	230	8.809	8.811	-0.002	84	67364	0.5000	0.4588	
7 Naphthalene	128	5.909	5.911	-0.002	98	111031	0.5000	0.4678	
8 2-Methylnaphthalene	142	6.480	6.477	0.003	83	76579	0.5000	0.4856	
9 1-Methylnaphthalene	142	6.560	6.557	0.003	86	63458	0.5000	0.4622	
10 1,1'-Biphenyl	154	6.870	6.867	0.003	92	81253	0.5000	0.4673	
11 Acenaphthylene	152	7.212	7.209	0.003	97	121444	0.5000	0.4817	
12 Acenaphthene	153	7.340	7.337	0.003	65	80133	0.5000	0.4748	
13 Dibenzofuran	168	7.484	7.487	-0.003	97	113691	0.5000	0.5262	
14 Fluorene	166	7.746	7.748	-0.002	88	85980	0.5000	0.4767	
15 Phenanthrene	178	8.510	8.512	-0.002	97	153861	0.5000	0.4613	
16 Anthracene	178	8.547	8.550	-0.003	97	106022	0.5000	0.4199	
17 Fluoranthene	202	9.450	9.452	-0.002	97	172888	0.5000	0.5099	
18 Pyrene	202	9.632	9.639	-0.007	96	171432	0.5000	0.4783	
19 Benzo[a]anthracene	228	10.604	10.617	-0.013	85	162566	0.5000	0.4923	
20 Chrysene	228	10.641	10.654	-0.013	92	168374	0.5000	0.4972	
21 Benzo[b]fluoranthene	252	11.490	11.514	-0.024	96	154950	0.5000	0.4651	
22 Benzo[k]fluoranthene	252	11.506	11.535	-0.029	84	134205	0.5000	0.4135	
23 Benzo[a]pyrene	252	11.779	11.802	-0.023	93	123530	0.5000	0.4647	
24 Indeno[1,2,3-cd]pyrene	276	12.831	12.860	-0.029	76	130979	0.5000	0.4271	
25 Dibenz(a,h)anthracene	278	12.842	12.865	-0.023	73	101122	0.5000	0.4523	
26 Benzo[g,h,i]perylene	276	13.114	13.143	-0.029	96	122042	0.5000	0.4860	

Report Date: 14-Aug-2015 09:49:14

Chrom Revision: 2.2 23-Jul-2015 08:26:08

**Reagents:**

SMLLPAH0.5LVI\_00026

Amount Added: 1.00

Units: mL

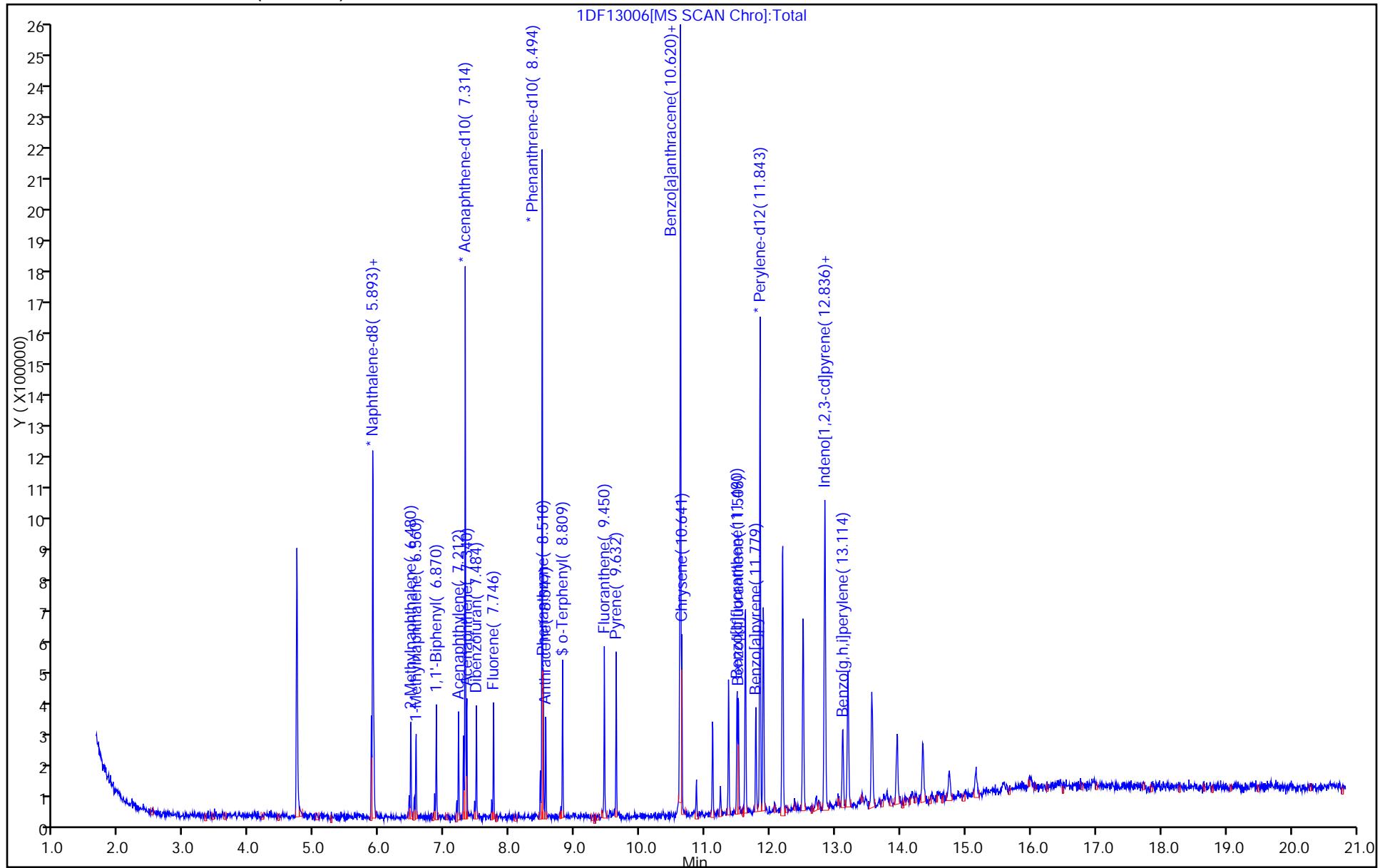
Report Date: 14-Aug-2015 09:49:14

Chrom Revision: 2.2 23-Jul-2015 08:26:08

## TestAmerica Savannah

Data File: \\ChromNA\\Savannah\\ChromData\CMSD\\20150813-22241.b\\1DF13006.D  
Injection Date: 13-Aug-2015 20:12:30 Instrument ID: CMSD  
Lims ID: IC Operator ID: LIMS import  
Client ID:  
Injection Vol: 2.0 ul Dil. Factor: 1.0000 ALS Bottle#: 6  
Method: 8270\_New\_LLPAH\_CMSD Limit Group: 8270D\_LL\_PAH  
Column: Restek RXi-5Sil MS ( 0.25 mm)

Worklist Smp#: 6



TestAmerica Savannah  
Target Compound Quantitation Report

Data File: \\ChromNA\Savannah\ChromData\CMSD\20150813-22241.b\1DF13007.D  
 Lims ID: IC  
 Client ID:  
 Sample Type: IC Calib Level: 2  
 Inject. Date: 13-Aug-2015 20:41:30 ALS Bottle#: 7 Worklist Smp#: 7  
 Injection Vol: 2.0 ul Dil. Factor: 1.0000  
 Sample Info: IC  
 Misc. Info.: 680-0022241-007  
 Operator ID: LIMS import Instrument ID: CMSD  
 Sublist: chrom-8270\_New\_LLPAH\_CMSD\*sub1  
 Method: \\ChromNA\Savannah\ChromData\CMSD\20150813-22241.b\8270\_New\_LLPAH\_CMSD.m  
 Limit Group: 8270D\_LL\_PAH  
 Last Update: 14-Aug-2015 09:49:16 Calib Date: 13-Aug-2015 21:10:30  
 Integrator: RTE ID Type: Deconvolution ID  
 Quant Method: Internal Standard Quant By: Initial Calibration  
 Last ICal File: \\ChromNA\Savannah\ChromData\CMSD\20150813-22241.b\1DF13008.D  
 Column 1 : Restek RXi-5Sil MS ( 0.25 mm) Det: MS SCAN  
 Process Host: XAWRK008

First Level Reviewer: moorer

Date:

14-Aug-2015 09:36:40

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
* 1 Naphthalene-d8	136	5.895	5.895	0.000	99	504816	2.00	2.00	
* 2 Acenaphthene-d10	164	7.316	7.316	0.000	93	291422	2.00	2.00	
* 3 Phenanthrene-d10	188	8.496	8.496	0.000	98	649648	2.00	2.00	
* 4 Chrysene-d12	240	10.616	10.633	-0.017	99	698736	2.00	2.00	
* 5 Perylene-d12	264	11.829	11.861	-0.032	99	685141	2.00	2.00	
\$ 6 o-Terphenyl	230	8.811	8.811	0.000	85	33815	0.2000	0.2347	
7 Naphthalene	128	5.911	5.911	0.000	96	47801	0.2000	0.2086	
8 2-Methylnaphthalene	142	6.477	6.477	0.000	79	29315	0.2000	0.1926	
9 1-Methylnaphthalene	142	6.562	6.557	0.005	90	27500	0.2000	0.2075	
10 1,1'-Biphenyl	154	6.872	6.867	0.005	84	35184	0.2000	0.1957	
11 Acenaphthylene	152	7.209	7.209	0.000	94	50459	0.2000	0.1936	
12 Acenaphthene	153	7.337	7.337	0.000	55	33728	0.2000	0.1933	
13 Dibenzofuran	168	7.486	7.487	-0.001	95	37347	0.2000	0.1672	
14 Fluorene	166	7.748	7.748	0.000	85	35499	0.2000	0.1904	
15 Phenanthrene	178	8.512	8.512	0.000	96	61526	0.2000	0.1885	
16 Anthracene	178	8.549	8.550	-0.001	98	47880	0.2000	0.1943	
17 Fluoranthene	202	9.452	9.452	0.000	94	64440	0.2000	0.1955	
18 Pyrene	202	9.634	9.639	-0.005	98	72078	0.2000	0.2049	
19 Benzo[a]anthracene	228	10.600	10.617	-0.017	93	60642	0.2000	0.1871	
20 Chrysene	228	10.632	10.654	-0.022	71	66780	0.2000	0.2009	
21 Benzo[b]fluoranthene	252	11.476	11.514	-0.038	96	68014	0.2000	0.1682	
22 Benzo[k]fluoranthene	252	11.498	11.535	-0.037	34	70169	0.2000	0.1779	
23 Benzo[a]pyrene	252	11.770	11.802	-0.032	93	53183	0.2000	0.1647	
24 Indeno[1,2,3-cd]pyrene	276	12.817	12.860	-0.043	80	61386	0.2000	0.2039	
25 Dibenz(a,h)anthracene	278	12.822	12.865	-0.043	76	54371	0.2000	0.2004	
26 Benzo[g,h,i]perylene	276	13.105	13.143	-0.038	96	57254	0.2000	0.1878	

Report Date: 14-Aug-2015 09:49:16

Chrom Revision: 2.2 23-Jul-2015 08:26:08

**Reagents:**

SMLLPAH0.2LVI\_00026

Amount Added: 1.00

Units: mL

Report Date: 14-Aug-2015 09:49:16

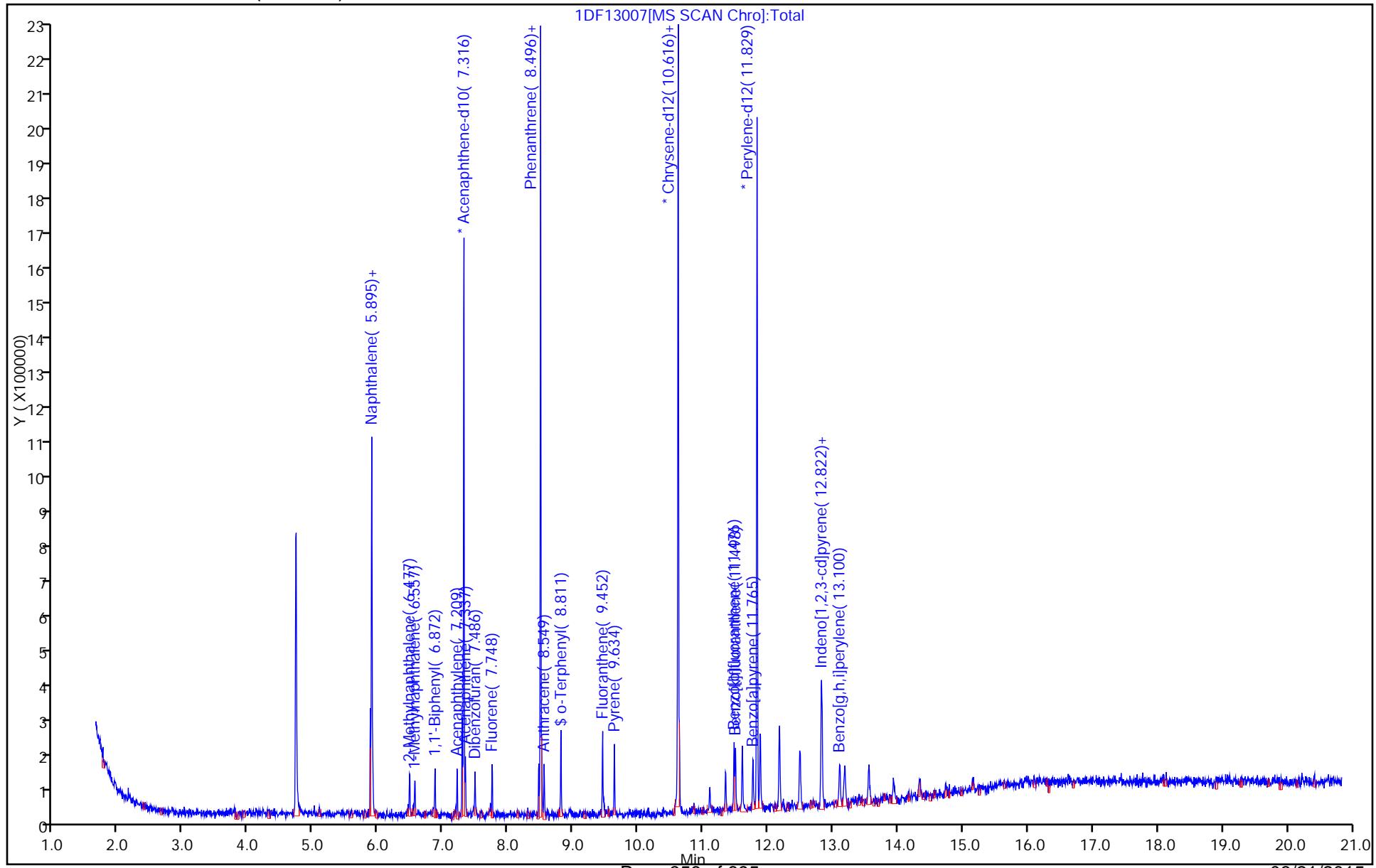
Chrom Revision: 2.2 23-Jul-2015 08:26:08

## TestAmerica Savannah

Data File: \\ChromNA\\Savannah\\ChromData\\CMSD\\20150813-22241.b\\1DF13007.D  
Injection Date: 13-Aug-2015 20:41:30 Instrument ID: CMSD  
Lims ID: IC Operator ID: LIMS import  
Client ID:  
Injection Vol: 2.0 ul Limit Group: 1.0000  
Method: 8270\_New\_LLPAH\_CMSD 8270D\_LL\_PAH  
Column: Restek RXi-5Sil MS ( 0.25 mm)

Worklist Smp#: 7

ALS Bottle#: 7



TestAmerica Savannah  
Target Compound Quantitation Report

Data File: \\ChromNA\Savannah\ChromData\CMSD\20150813-22241.b\1DF13008.D  
 Lims ID: IC  
 Client ID:  
 Sample Type: IC Calib Level: 1  
 Inject. Date: 13-Aug-2015 21:10:30 ALS Bottle#: 8 Worklist Smp#: 8  
 Injection Vol: 2.0 ul Dil. Factor: 1.0000  
 Sample Info: IC  
 Misc. Info.: 680-0022241-008  
 Operator ID: LIMS import Instrument ID: CMSD  
 Sublist: chrom-8270\_New\_LLPAH\_CMSD\*sub1  
 Method: \\ChromNA\Savannah\ChromData\CMSD\20150813-22241.b\8270\_New\_LLPAH\_CMSD.m  
 Limit Group: 8270D\_LL\_PAH  
 Last Update: 14-Aug-2015 09:49:18 Calib Date: 13-Aug-2015 21:10:30  
 Integrator: RTE ID Type: Deconvolution ID  
 Quant Method: Internal Standard Quant By: Initial Calibration  
 Last ICal File: \\ChromNA\Savannah\ChromData\CMSD\20150813-22241.b\1DF13008.D  
 Column 1 : Restek RXi-5Sil MS ( 0.25 mm) Det: MS SCAN  
 Process Host: XAWRK008

First Level Reviewer: moorer

Date:

14-Aug-2015 09:39:23

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
* 1 Naphthalene-d8	136	5.896	5.895	0.001	99	472798	2.00	2.00	
* 2 Acenaphthene-d10	164	7.311	7.316	-0.005	94	264286	2.00	2.00	
* 3 Phenanthrene-d10	188	8.497	8.496	0.001	98	614093	2.00	2.00	
* 4 Chrysene-d12	240	10.612	10.633	-0.021	99	705487	2.00	2.00	
* 5 Perylene-d12	264	11.830	11.861	-0.031	99	650381	2.00	2.00	
\$ 6 o-Terphenyl	230	8.807	8.811	-0.004	87	14071	0.1000	0.0967	
7 Naphthalene	128	5.907	5.911	-0.004	97	22013	0.1000	0.1026	
8 2-Methylnaphthalene	142	6.484	6.477	0.007	85	16474	0.1000	0.1155	
9 1-Methylnaphthalene	142	6.553	6.557	-0.004	88	13108	0.1000	0.1056	
10 1,1'-Biphenyl	154	6.873	6.867	0.006	86	15414	0.1000	0.0945	
11 Acenaphthylene	152	7.210	7.209	0.001	91	23512	0.1000	0.0995	
12 Acenaphthene	153	7.338	7.337	0.001	38	17920	0.1000	0.1132	
13 Dibenzofuran	168	7.488	7.487	0.001	89	20188	0.1000	0.0996	
14 Fluorene	166	7.749	7.748	0.001	89	17765	0.1000	0.1051	
15 Phenanthrene	178	8.513	8.512	0.001	96	31431	0.1000	0.1019	
16 Anthracene	178	8.551	8.550	0.001	95	20679	0.1000	0.0889	
17 Fluoranthene	202	9.448	9.452	-0.004	94	30498	0.1000	0.0981	
18 Pyrene	202	9.629	9.639	-0.010	93	31662	0.1000	0.0891	
19 Benzo[a]anthracene	228	10.601	10.617	-0.016	64	28671	0.1000	0.0876	
20 Chrysene	228	10.634	10.654	-0.020	70	33108	0.1000	0.0986	
21 Benzo[b]fluoranthene	252	11.477	11.514	-0.037	95	27016	0.1000	0.0705	
22 Benzo[k]fluoranthene	252	11.499	11.535	-0.036	56	25993	0.1000	0.0695	
23 Benzo[a]pyrene	252	11.771	11.802	-0.031	89	23213	0.1000	0.0758	
24 Indeno[1,2,3-cd]pyrene	276	12.823	12.860	-0.037	73	30268	0.1000	0.0996	
25 Dibenz(a,h)anthracene	278	12.829	12.865	-0.036	70	26226	0.1000	0.1020	
26 Benzo[g,h,i]perylene	276	13.106	13.143	-0.037	87	25307	0.1000	0.0876	

Report Date: 14-Aug-2015 09:49:19

Chrom Revision: 2.2 23-Jul-2015 08:26:08

**Reagents:**

SMLLPAH0.1LVI\_00027

Amount Added: 1.00

Units: mL

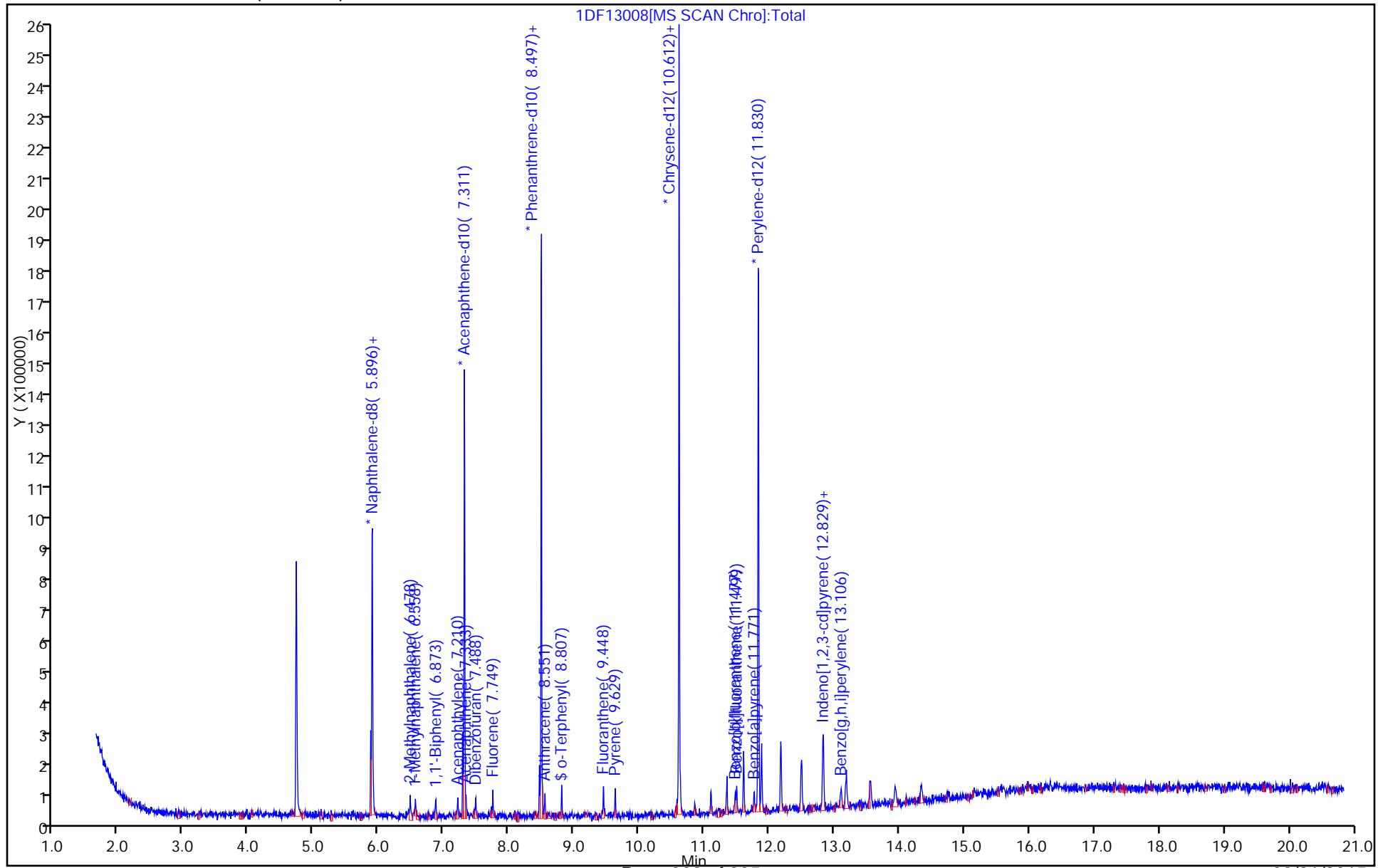
Report Date: 14-Aug-2015 09:49:19

Chrom Revision: 2.2 23-Jul-2015 08:26:08

## TestAmerica Savannah

Data File: \\ChromNA\\Savannah\\ChromData\CMSD\\20150813-22241.b\\1DF13008.D  
Injection Date: 13-Aug-2015 21:10:30 Instrument ID: CMSD  
Lims ID: IC Operator ID: LIMS import  
Client ID:  
Injection Vol: 2.0 ul Dil. Factor: 1.0000 ALS Bottle#: 8  
Method: 8270\_New\_LLPAH\_CMSD Limit Group: 8270D\_LL\_PAH  
Column: Restek RXi-5Sil MS ( 0.25 mm)

Worklist Smp#: 8



FORM VI  
GC/MS SEMI VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA  
CURVE EVALUATION

Lab Name: TestAmerica Savannah

Job No.: 680-115692-1

Analy Batch No.: 396036

SDG No.: 680-115692-01

Instrument ID: CMSK

GC Column: RXi- 5Sil M ID: 0.25(mm)

Heated Purge: (Y/N) N

Calibration Start Date: 08/13/2015 17:33

Calibration End Date: 08/13/2015 20:12

Calibration ID: 40936

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 680-396036/8	1KF13008.D
Level 2	IC 680-396036/7	1KF13007.D
Level 3	IC 680-396036/6	1KF13006.D
Level 4	IC 680-396036/5	1KF13005.D
Level 5	ICIS 680-396036/4	1KF13004.D
Level 6	IC 680-396036/3	1KF13003.D
Level 7	IC 680-396036/2	1KF13002.D

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5		B	M1	M2								
Naphthalene	0.9009 0.9932	0.9308 1.0002	0.9276	0.9162	0.7962	Ave		0.9236			0.7000	7.3		20.0			
2-Methylnaphthalene	0.5523 0.6800	0.5724 0.6830	0.5833	0.5938	0.5425	Ave		0.6010			0.4000	9.6		20.0			
1-Methylnaphthalene	0.4946 0.5996	0.5204 0.5959	0.5300	0.5309	0.4846	Ave		0.5366					8.4	20.0			
1,1'-Biphenyl	1.3226 1.5239	1.3362 1.5262	1.3679	1.3701	1.2216	Ave		1.3812				8.0	20.0				
Acenaphthylene	1.6683 2.0027	1.6966 2.0206	1.7560	1.7707	1.6085	Ave		1.7890			0.9000	9.0		20.0			
Acenaphthene	1.1331 1.3081	1.1339 1.2949	1.1808	1.1771	1.0521	Ave		1.1828			0.9000	7.7		20.0			
Dibenzofuran	1.4360 1.6399	1.4828 1.6560	1.4973	1.4699	1.3288	Ave		1.5015				7.6	20.0				
Fluorene	1.1932 1.4552	1.2056 1.4720	1.2517	1.2694	1.1684	Ave		1.2879			0.9000	9.7		20.0			
Phenanthrene	0.9368 1.1115	0.9606 1.0963	0.9708	0.9626	0.9040	Ave		0.9918			0.7000	8.1		20.0			
Anthracene	0.7491 0.9536	0.8013 0.9550	0.8155	0.8224	0.7825	Ave		0.8399			0.7000	9.7		20.0			
Fluoranthene	0.9551 1.2067	1.0100 1.2149	1.0163	1.0135	0.9817	Ave		1.0569			0.6000	10.2		20.0			
Pyrene	0.9048 1.0499	0.9377 0.9912	0.9916	0.9519	0.8777	Ave		0.9579			0.6000	6.1		20.0			
Benzo[a]anthracene	0.9437 1.0382	0.9409 0.9803	0.9578	0.9201	0.8322	Ave		0.9447			0.7000	6.6		20.0			
Chrysene	0.9010 0.9763	0.9473 0.9282	0.9514	0.9285	0.8361	Ave		0.9241			0.7000	4.9		20.0			

Note: The m1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI  
GC/MS SEMI VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA  
CURVE EVALUATION

Lab Name: TestAmerica Savannah Job No.: 680-115692-1 Analy Batch No.: 396036  
SDG No.: 680-115692-01  
Instrument ID: CMSK GC Column: RXi- 5Sil M ID: 0.25 (mm) Heated Purge: (Y/N) N  
Calibration Start Date: 08/13/2015 17:33 Calibration End Date: 08/13/2015 20:12 Calibration ID: 40936

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5		B	M1	M2								
Benzo[b]fluoranthene	0.8948 1.1092	0.9354 1.1647	0.9236	0.9172	0.8754	Ave		0.9743			0.4000	11.7		20.0			
Benzo[k]fluoranthene	1.0364 1.1523	0.9651 1.0902	1.0135	1.0246	0.9237	Ave		1.0294			0.4000	7.4		20.0			
Benzo[a]pyrene	0.8021 0.9990	0.8084 1.0056	0.8472	0.8487	0.7938	Ave		0.8721			0.4000	10.5		20.0			
Indeno[1,2,3-cd]pyrene	0.7363 1.0472	0.7601 0.9642	0.8651	0.8900	0.8188	Ave		0.8688			0.2000	12.7		20.0			
Dibenz(a,h)anthracene	0.6319 0.9503	0.6403 0.9363	0.6951	0.7371	0.7173	Ave		0.7583			0.2000	17.4		20.0			
Benzo[g,h,i]perylene	0.7032 0.8898	0.7107 0.8805	0.7450	0.7872	0.7222	Ave		0.7726			0.2000	9.4		20.0			
o-Terphenyl	0.4532 0.5042	0.5720 0.4832	0.4814	0.4618	0.4252	Ave		0.4830					9.7		20.0		

Note: The m1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI  
GC/MS SEMI VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA  
RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Savannah Job No.: 680-115692-1 Analy Batch No.: 396036  
SDG No.: 680-115692-01  
Instrument ID: CMSK GC Column: RXi- 5Sil M ID: 0.25(mm) Heated Purge: (Y/N) N  
Calibration Start Date: 08/13/2015 17:33 Calibration End Date: 08/13/2015 20:12 Calibration ID: 40936

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 680-396036/8	1KF13008.D
Level 2	IC 680-396036/7	1KF13007.D
Level 3	IC 680-396036/6	1KF13006.D
Level 4	IC 680-396036/5	1KF13005.D
Level 5	ICIS 680-396036/4	1KF13004.D
Level 6	IC 680-396036/3	1KF13003.D
Level 7	IC 680-396036/2	1KF13002.D

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/ML)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5
Naphthalene	NPT	Ave	8250 897238	17000 1661152	40994	78740	303601	0.100 10.0	0.200 20.0	0.500	1.00	5.00
2-Methylnaphthalene	NPT	Ave	5058 614256	10454 1134233	25780	51035	206876	0.100 10.0	0.200 20.0	0.500	1.00	5.00
1-Methylnaphthalene	NPT	Ave	4529 541617	9504 989702	23422	45633	184773	0.100 10.0	0.200 20.0	0.500	1.00	5.00
1,1'-Biphenyl	ANT	Ave	5703 678759	11775 1238524	28912	56526	228650	0.100 10.0	0.200 20.0	0.500	1.00	5.00
Acenaphthylene	ANT	Ave	7194 892001	14951 1639671	37115	73053	301059	0.100 10.0	0.200 20.0	0.500	1.00	5.00
Acenaphthene	ANT	Ave	4886 582623	9992 1050770	24957	48563	196924	0.100 10.0	0.200 20.0	0.500	1.00	5.00
Dibenzofuran	ANT	Ave	6192 730412	13067 1343818	31648	60641	248711	0.100 10.0	0.200 20.0	0.500	1.00	5.00
Fluorene	ANT	Ave	5145 648175	10624 1194494	26456	52369	218697	0.100 10.0	0.200 20.0	0.500	1.00	5.00
Phenanthrene	PHN	Ave	7836 966173	16512 1767330	40258	78979	325648	0.100 10.0	0.200 20.0	0.500	1.00	5.00
Anthracene	PHN	Ave	6266 828893	13774 1539546	33815	67479	281882	0.100 10.0	0.200 20.0	0.500	1.00	5.00
Fluoranthene	PHN	Ave	7989 1048900	17361 1958533	42142	83157	353645	0.100 10.0	0.200 20.0	0.500	1.00	5.00
Pyrene	CRY	Ave	8210 1100300	17489 2019878	44472	86853	370019	0.100 10.0	0.200 20.0	0.500	1.00	5.00
Benzo[a]anthracene	CRY	Ave	8563 1088023	17548 1997570	42954	83943	350821	0.100 10.0	0.200 20.0	0.500	1.00	5.00
Chrysene	CRY	Ave	8175 1023179	17667 1891470	42669	84718	352491	0.100 10.0	0.200 20.0	0.500	1.00	5.00
Benzo[b]fluoranthene	PRY	Ave	7576 1087403	16597 2105706	40895	81051	348868	0.100 10.0	0.200 20.0	0.500	1.00	5.00

FORM VI  
GC/MS SEMI VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA  
RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Savannah Job No.: 680-115692-1 Analy Batch No.: 396036  
SDG No.: 680-115692-01

Instrument ID: CMSK GC Column: RXi- 5Sil M ID: 0.25 (mm) Heated Purge: (Y/N) N  
Calibration Start Date: 08/13/2015 17:33 Calibration End Date: 08/13/2015 20:12 Calibration ID: 40936

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/ML)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5
Benzo[k]fluoranthene	PRY	Ave	8775 1129690	17124 1971034	44875	90544	368129	0.100 10.0	0.200 20.0	0.500	1.00	5.00
Benzo[a]pyrene	PRY	Ave	6791 979346	14343 1818106	37511	75003	316353	0.100 10.0	0.200 20.0	0.500	1.00	5.00
Indeno[1,2,3-cd]pyrene	CRY	Ave	6681 1097431	14176 1964800	38797	81197	345181	0.100 10.0	0.200 20.0	0.500	1.00	5.00
Dibenz(a,h)anthracene	PRY	Ave	5350 931614	11361 1692825	30777	65142	285880	0.100 10.0	0.200 20.0	0.500	1.00	5.00
Benzo[g,h,i]perylene	PRY	Ave	5954 872304	12610 1537593	32986	69564	287800	0.100 10.0	0.200 20.0	0.500	1.00	5.00
o-Terphenyl	CRY	Ave	4112 528436	10668 984556	21591	42132	179266	0.100 10.0	0.200 20.0	0.500	1.00	5.00

Curve Type Legend:

Ave = Average ISTD

TestAmerica Savannah  
Target Compound Quantitation Report

Data File: \\ChromNA\Savannah\ChromData\CMSK\20150813-22239.b\1KF13002.D  
 Lims ID: IC  
 Client ID:  
 Sample Type: IC Calib Level: 7  
 Inject. Date: 13-Aug-2015 17:33:30 ALS Bottle#: 2 Worklist Smp#: 2  
 Injection Vol: 2.0 ul Dil. Factor: 1.0000  
 Sample Info: IC  
 Misc. Info.: 680-0022239-002  
 Operator ID: LIMS import Instrument ID: CMSK  
 Sublist: chrom-8270\_LLPAH\_CMSK\*sub4  
 Method: \\ChromNA\Savannah\ChromData\CMSK\20150813-22239.b\8270\_LLPAH\_CMSK.m  
 Limit Group: 8270D\_LL\_PAH  
 Last Update: 14-Aug-2015 10:58:36 Calib Date: 13-Aug-2015 20:12:30  
 Integrator: RTE ID Type: Deconvolution ID  
 Quant Method: Internal Standard Quant By: Initial Calibration  
 Last ICal File: \\ChromNA\Savannah\ChromData\CMSK\20150813-22239.b\1KF13008.D  
 Column 1 : Restek RXi-5Sil MS ( 0.25 mm) Det: MS SCAN  
 Process Host: XAWRK008

First Level Reviewer: moorer

Date:

14-Aug-2015 10:36:59

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
* 1 Naphthalene-d8	136	4.260	4.260	0.000	98	166078	2.00	2.00	
* 2 Acenaphthene-d10	164	6.052	6.052	0.000	97	81149	2.00	2.00	
* 3 Phenanthrene-d10	188	7.668	7.662	0.006	98	161208	2.00	2.00	
* 4 Chrysene-d12	240	10.506	10.506	0.000	99	203772	2.00	2.00	
* 5 Perylene-d12	264	12.045	12.063	-0.018	99	180792	2.00	2.00	
\$ 6 o-Terphenyl	230	8.103	8.097	0.006	90	984556	20.0	20.0	
7 Naphthalene	128	4.284	4.284	0.000	99	1661152	20.0	21.7	
8 2-Methylnaphthalene	142	4.965	4.959	0.006	93	1134233	20.0	22.7	
9 1-Methylnaphthalene	142	5.071	5.059	0.012	93	989702	20.0	22.2	
10 1,1'-Biphenyl	154	5.447	5.441	0.006	98	1238524	20.0	22.1	
11 Acenaphthylene	152	5.905	5.899	0.006	97	1639671	20.0	22.6	
12 Acenaphthene	153	6.093	6.087	0.006	95	1050770	20.0	21.9	
13 Dibenzofuran	168	6.275	6.269	0.006	100	1343818	20.0	22.1	
14 Fluorene	166	6.651	6.640	0.011	95	1194494	20.0	22.9	
15 Phenanthrene	178	7.697	7.691	0.006	98	1767330	20.0	22.1	
16 Anthracene	178	7.756	7.744	0.012	98	1539546	20.0	22.7	
17 Fluoranthene	202	8.996	8.984	0.012	97	1958533	20.0	23.0	
18 Pyrene	202	9.237	9.225	0.012	96	2019878	20.0	20.7	
19 Benzo[a]anthracene	228	10.500	10.494	0.006	98	1997570	20.0	20.8	
20 Chrysene	228	10.541	10.535	0.006	98	1891470	20.0	20.1	
21 Benzo[b]fluoranthene	252	11.622	11.622	0.000	98	2105706	20.0	23.9	
22 Benzo[k]fluoranthene	252	11.657	11.652	0.005	98	1971034	20.0	21.2	
23 Benzo[a]pyrene	252	11.998	11.992	0.006	96	1818106	20.0	23.1	
24 Indeno[1,2,3-cd]pyrene	276	13.579	13.555	0.024	76	1964800	20.0	22.2	
25 Dibenz(a,h)anthracene	278	13.608	13.585	0.023	97	1692825	20.0	24.7	
26 Benzo[g,h,i]perylene	276	14.037	14.008	0.029	98	1537593	20.0	22.0	

Report Date: 14-Aug-2015 10:58:36

Chrom Revision: 2.2 23-Jul-2015 08:26:08

**Reagents:**

SMLLPAH20LVI\_00030

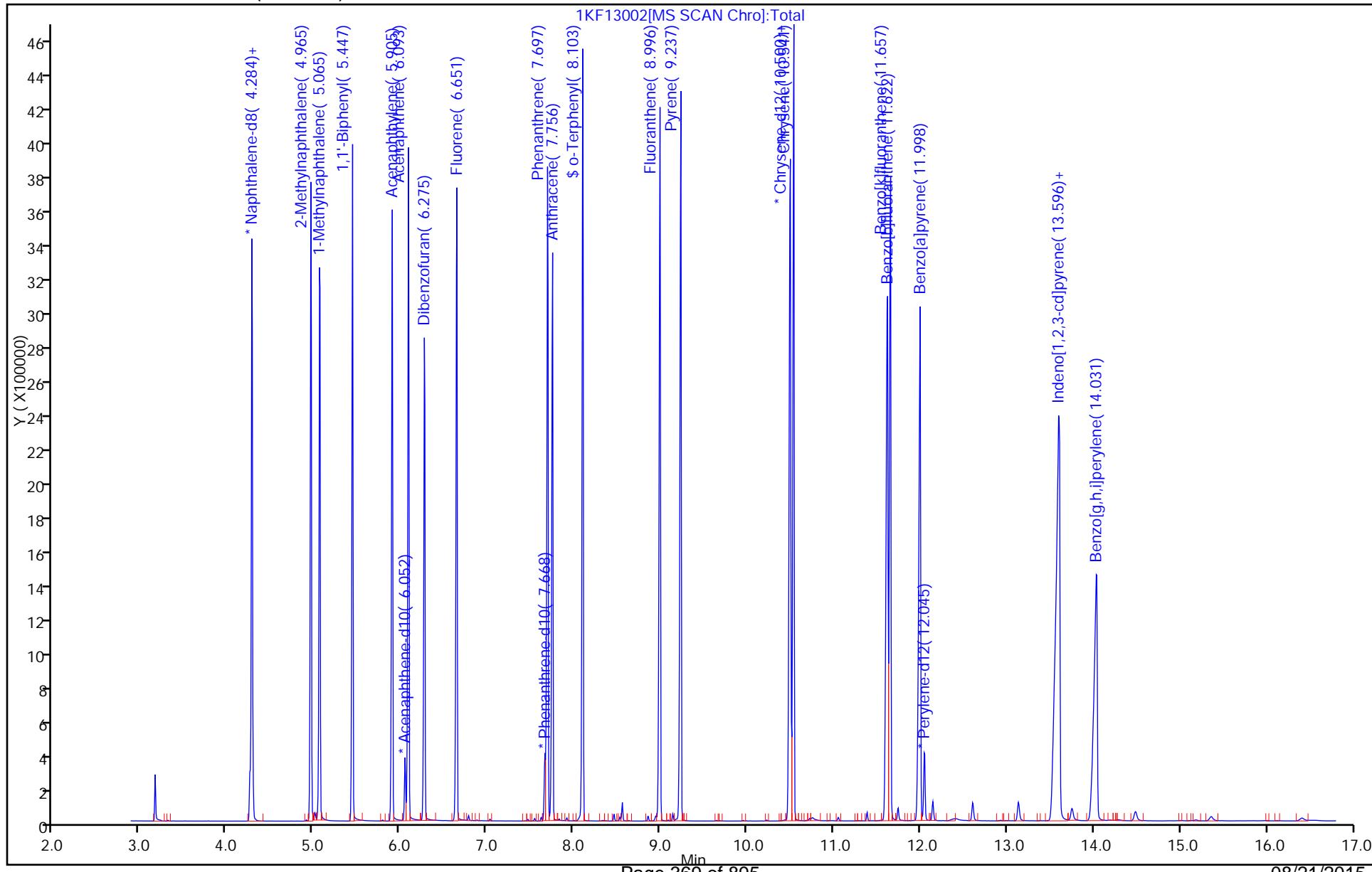
Amount Added: 1.00

Units: mL

Report Date: 14-Aug-2015 10:58:36

Chrom Revision: 2.2 23-Jul-2015 08:26:08

TestAmerica Savannah  
 Data File: \\ChromNA\\Savannah\\ChromData\CMSK\\20150813-22239.b\\1KF13002.D  
 Injection Date: 13-Aug-2015 17:33:30 Instrument ID: CMSK  
 Lims ID: IC Operator ID: LIMS import  
 Client ID:  
 Injection Vol: 2.0 ul Worklist Smp#: 2  
 Method: 8270\_LLPAH\_CMSK Dil. Factor: 1.0000  
 Column: Restek RXi-5Sil MS ( 0.25 mm) Limit Group: 8270D\_LL\_PAH



TestAmerica Savannah  
Target Compound Quantitation Report

Data File: \\ChromNA\Savannah\ChromData\CMSK\20150813-22239.b\1KF13003.D  
 Lims ID: IC  
 Client ID:  
 Sample Type: IC Calib Level: 6  
 Inject. Date: 13-Aug-2015 17:59:30 ALS Bottle#: 3 Worklist Smp#: 3  
 Injection Vol: 2.0 ul Dil. Factor: 1.0000  
 Sample Info: IC  
 Misc. Info.: 680-0022239-003  
 Operator ID: LIMS import Instrument ID: CMSK  
 Sublist: chrom-8270\_LLPAH\_CMSK\*sub4  
 Method: \\ChromNA\Savannah\ChromData\CMSK\20150813-22239.b\8270\_LLPAH\_CMSK.m  
 Limit Group: 8270D\_LL\_PAH  
 Last Update: 14-Aug-2015 10:58:37 Calib Date: 13-Aug-2015 20:12:30  
 Integrator: RTE ID Type: Deconvolution ID  
 Quant Method: Internal Standard Quant By: Initial Calibration  
 Last ICal File: \\ChromNA\Savannah\ChromData\CMSK\20150813-22239.b\1KF13008.D  
 Column 1 : Restek RXi-5Sil MS ( 0.25 mm) Det: MS SCAN  
 Process Host: XAWRK008

First Level Reviewer: moorer

Date:

14-Aug-2015 10:37:13

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
* 1 Naphthalene-d8	136	4.260	4.260	0.000	99	180671	2.00	2.00	
* 2 Acenaphthene-d10	164	6.052	6.052	0.000	97	89082	2.00	2.00	
* 3 Phenanthrene-d10	188	7.662	7.662	0.000	98	173847	2.00	2.00	
* 4 Chrysene-d12	240	10.506	10.506	0.000	99	209601	2.00	2.00	
* 5 Perylene-d12	264	12.051	12.063	-0.012	98	196068	2.00	2.00	
\$ 6 o-Terphenyl	230	8.102	8.097	0.005	90	528436	10.0	10.4	
7 Naphthalene	128	4.283	4.284	-0.001	99	897238	10.0	10.8	
8 2-Methylnaphthalene	142	4.965	4.959	0.006	86	614256	10.0	11.3	
9 1-Methylnaphthalene	142	5.065	5.059	0.006	93	541617	10.0	11.2	
10 1,1'-Biphenyl	154	5.441	5.441	0.000	99	678759	10.0	11.0	
11 Acenaphthylene	152	5.899	5.899	0.000	97	892001	10.0	11.2	
12 Acenaphthene	153	6.087	6.087	0.000	95	582623	10.0	11.1	
13 Dibenzofuran	168	6.275	6.269	0.006	99	730412	10.0	10.9	
14 Fluorene	166	6.645	6.640	0.005	95	648175	10.0	11.3	
15 Phenanthrene	178	7.691	7.691	0.000	98	966173	10.0	11.2	
16 Anthracene	178	7.750	7.744	0.006	98	828893	10.0	11.4	
17 Fluoranthene	202	8.990	8.984	0.006	97	1048900	10.0	11.4	
18 Pyrene	202	9.231	9.225	0.006	97	1100300	10.0	11.0	
19 Benzo[a]anthracene	228	10.494	10.494	0.000	98	1088023	10.0	11.0	
20 Chrysene	228	10.535	10.535	0.000	98	1023179	10.0	10.6	
21 Benzo[b]fluoranthene	252	11.616	11.622	-0.006	98	1087403	10.0	11.4	
22 Benzo[k]fluoranthene	252	11.651	11.652	-0.001	98	1129690	10.0	11.2	
23 Benzo[a]pyrene	252	11.992	11.992	0.000	96	979346	10.0	11.5	
24 Indeno[1,2,3-cd]pyrene	276	13.561	13.555	0.006	97	1097431	10.0	12.1	
25 Dibenz(a,h)anthracene	278	13.590	13.585	0.005	95	931614	10.0	12.5	
26 Benzo[g,h,i]perylene	276	14.019	14.008	0.011	98	872304	10.0	11.5	

Report Date: 14-Aug-2015 10:58:37

Chrom Revision: 2.2 23-Jul-2015 08:26:08

**Reagents:**

SMLLPAH10LVI\_00026

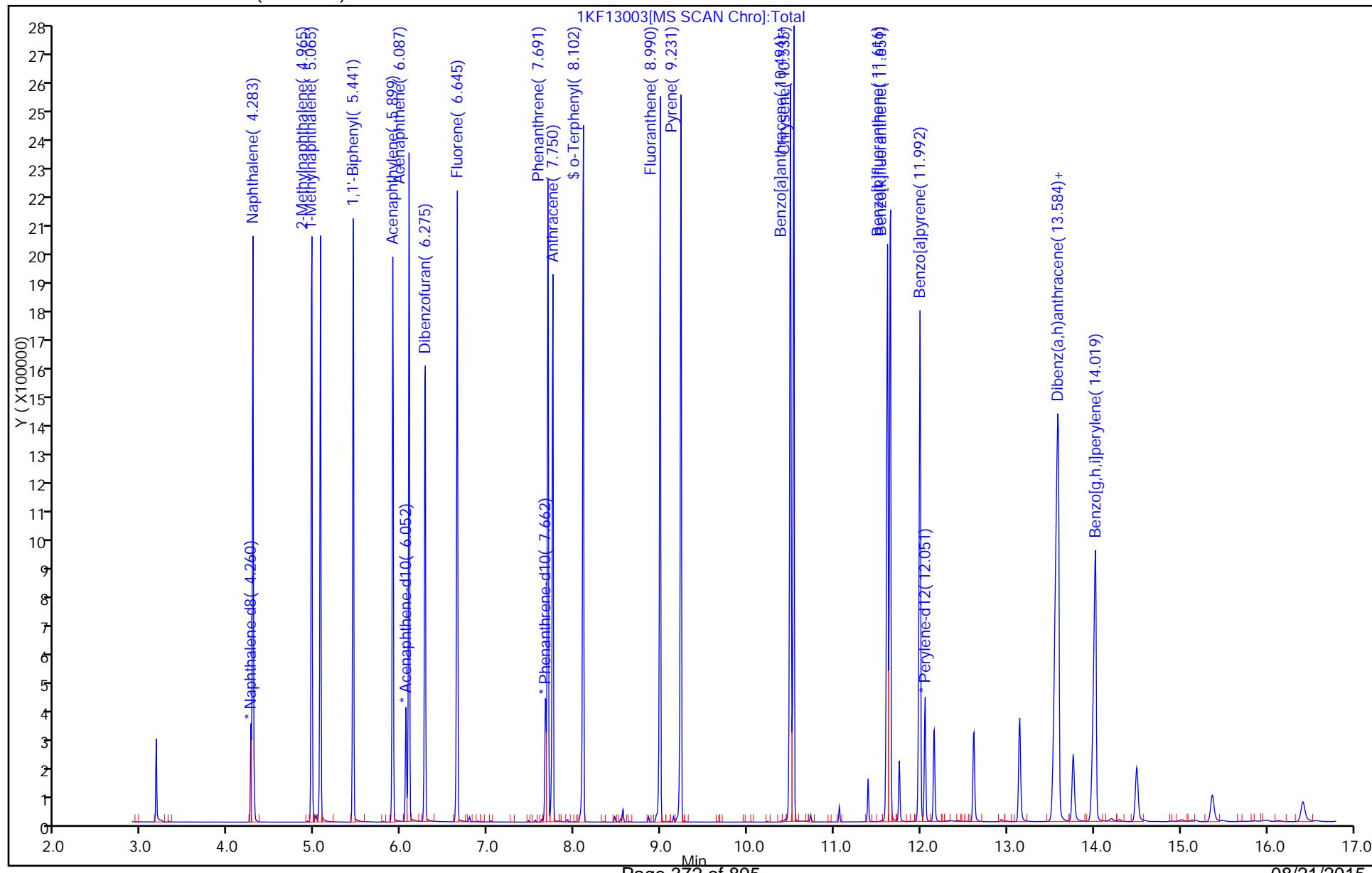
Amount Added: 1.00

Units: mL

Report Date: 14-Aug-2015 10:58:37

Chrom Revision: 2.2 23-Jul-2015 08:26:08

TestAmerica Savannah  
 Data File: \\ChromNA\\Savannah\\ChromData\CMSK\\20150813-22239.b\\1KF13003.D  
 Injection Date: 13-Aug-2015 17:59:30 Instrument ID: CMSK  
 Lims ID: IC Operator ID: LIMS import  
 Client ID:  
 Injection Vol: 2.0 ul Worklist Smp#: 3  
 Method: 8270\_LLPAH\_CMSK Dil. Factor: 1.0000  
 Column: Restek RXi-5Sil MS ( 0.25 mm) Limit Group: 8270D\_LL\_PAH



TestAmerica Savannah  
Target Compound Quantitation Report

Data File: \\ChromNA\Savannah\ChromData\CMSK\20150813-22239.b\1KF13004.D  
 Lims ID: ICIS  
 Client ID:  
 Sample Type: ICIS Calib Level: 5  
 Inject. Date: 13-Aug-2015 18:26:30 ALS Bottle#: 4 Worklist Smp#: 4  
 Injection Vol: 2.0 ul Dil. Factor: 1.0000  
 Sample Info: ICIS  
 Misc. Info.: 680-0022239-004  
 Operator ID: LIMS import Instrument ID: CMSK  
 Sublist: chrom-8270\_LLPAH\_CMSK\*sub4  
 Method: \\ChromNA\Savannah\ChromData\CMSK\20150813-22239.b\8270\_LLPAH\_CMSK.m  
 Limit Group: 8270D\_LL\_PAH  
 Last Update: 14-Aug-2015 10:58:38 Calib Date: 13-Aug-2015 20:12:30  
 Integrator: RTE ID Type: Deconvolution ID  
 Quant Method: Internal Standard Quant By: Initial Calibration  
 Last ICal File: \\ChromNA\Savannah\ChromData\CMSK\20150813-22239.b\1KF13008.D  
 Column 1 : Restek RXi-5Sil MS ( 0.25 mm) Det: MS SCAN  
 Process Host: XAWRK008

First Level Reviewer: moorer

Date:

14-Aug-2015 10:37:33

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
* 1 Naphthalene-d8	136	4.260	4.260	0.000	98	152531	2.00	2.00	
* 2 Acenaphthene-d10	164	6.052	6.052	0.000	97	74869	2.00	2.00	
* 3 Phenanthrene-d10	188	7.662	7.662	0.000	98	144088	2.00	2.00	
* 4 Chrysene-d12	240	10.506	10.506	0.000	99	168629	2.00	2.00	
* 5 Perylene-d12	264	12.063	12.063	0.000	99	159409	2.00	2.00	
\$ 6 o-Terphenyl	230	8.097	8.097	0.000	90	179266	5.00	4.40	
7 Naphthalene	128	4.284	4.284	0.000	99	303601	5.00	4.31	
8 2-Methylnaphthalene	142	4.959	4.959	0.000	85	206876	5.00	4.51	
9 1-Methylnaphthalene	142	5.059	5.059	0.000	93	184773	5.00	4.52	
10 1,1'-Biphenyl	154	5.441	5.441	0.000	99	228650	5.00	4.42	
11 Acenaphthylene	152	5.899	5.899	0.000	97	301059	5.00	4.50	
12 Acenaphthene	153	6.087	6.087	0.000	95	196924	5.00	4.45	
13 Dibenzofuran	168	6.269	6.269	0.000	100	248711	5.00	4.42	
14 Fluorene	166	6.640	6.640	0.000	95	218697	5.00	4.54	
15 Phenanthrene	178	7.691	7.691	0.000	97	325648	5.00	4.56	
16 Anthracene	178	7.744	7.744	0.000	98	281882	5.00	4.66	
17 Fluoranthene	202	8.984	8.984	0.000	97	353645	5.00	4.64	
18 Pyrene	202	9.225	9.225	0.000	97	370019	5.00	4.58	
19 Benzo[a]anthracene	228	10.494	10.494	0.000	98	350821	5.00	4.40	
20 Chrysene	228	10.535	10.535	0.000	98	352491	5.00	4.52	
21 Benzo[b]fluoranthene	252	11.622	11.622	0.000	98	348868	5.00	4.49	
22 Benzo[k]fluoranthene	252	11.652	11.652	0.000	98	368129	5.00	4.49	
23 Benzo[a]pyrene	252	11.992	11.992	0.000	97	316353	5.00	4.55	
24 Indeno[1,2,3-cd]pyrene	276	13.555	13.555	0.000	97	345181	5.00	4.71	
25 Dibenz(a,h)anthracene	278	13.585	13.585	0.000	97	285880	5.00	4.73	
26 Benzo[g,h,i]perylene	276	14.008	14.008	0.000	98	287800	5.00	4.67	

Report Date: 14-Aug-2015 10:58:39

Chrom Revision: 2.2 23-Jul-2015 08:26:08

**Reagents:**

SMLLPAH5.0LVI\_00029

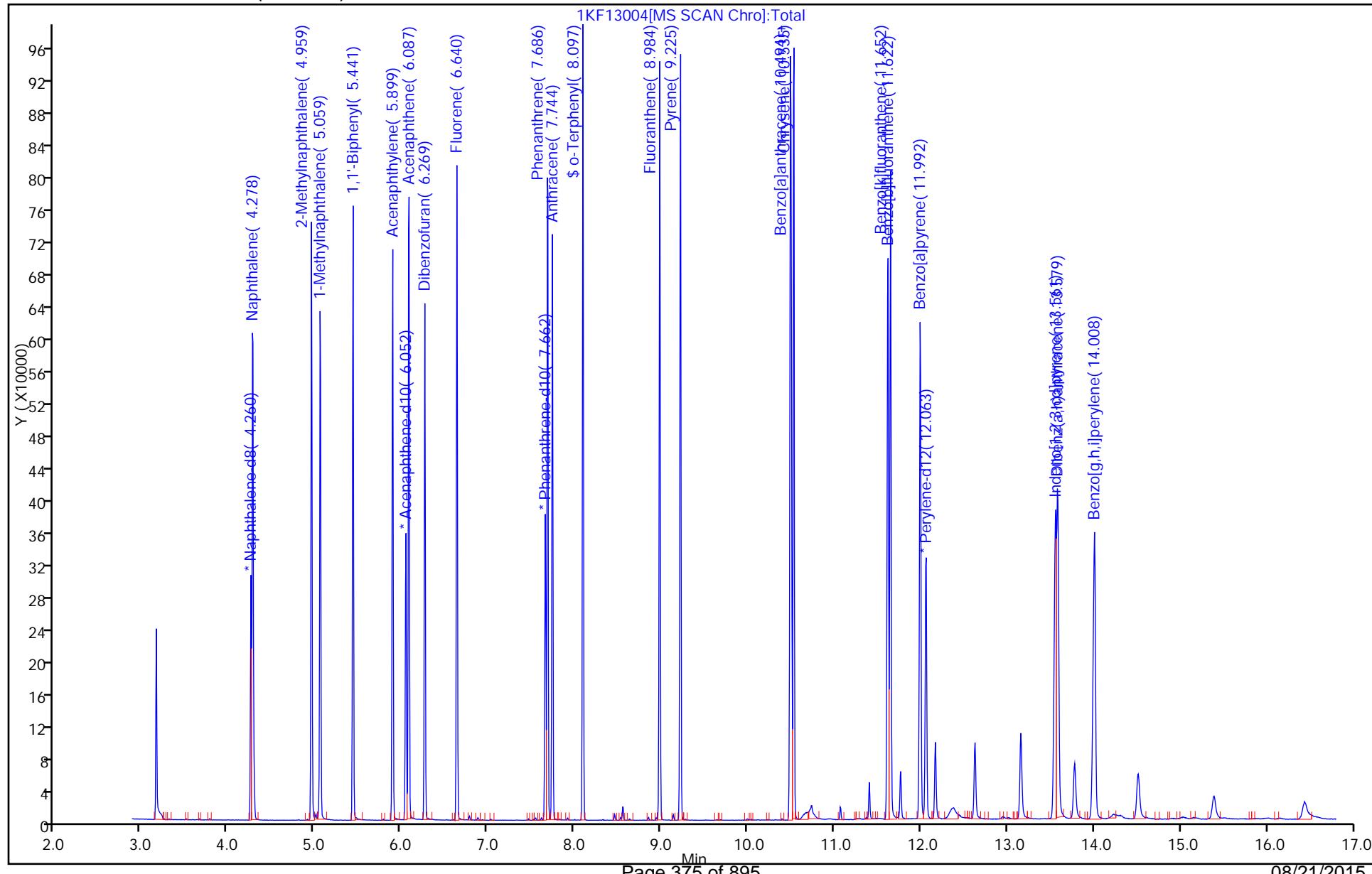
Amount Added: 1.00

Units: mL

Report Date: 14-Aug-2015 10:58:39

Chrom Revision: 2.2 23-Jul-2015 08:26:08

TestAmerica Savannah  
 Data File: \\ChromNA\\Savannah\\ChromData\CMSK\\20150813-22239.b\\1KF13004.D  
 Injection Date: 13-Aug-2015 18:26:30 Instrument ID: CMSK  
 Lims ID: ICIS Operator ID: LIMS import  
 Client ID:  
 Injection Vol: 2.0 ul Worklist Smp#: 4  
 Method: 8270\_LLPAH\_CMSK Dil. Factor: 1.0000  
 Column: Restek RXi-5Sil MS ( 0.25 mm) Limit Group: 8270D\_LL\_PAH



TestAmerica Savannah  
Target Compound Quantitation Report

Data File: \\ChromNA\Savannah\ChromData\CMSK\20150813-22239.b\1KF13005.D  
 Lims ID: IC  
 Client ID:  
 Sample Type: IC Calib Level: 4  
 Inject. Date: 13-Aug-2015 18:52:30 ALS Bottle#: 5 Worklist Smp#: 5  
 Injection Vol: 2.0 ul Dil. Factor: 1.0000  
 Sample Info: IC  
 Misc. Info.: 680-0022239-005  
 Operator ID: LIMS import Instrument ID: CMSK  
 Sublist: chrom-8270\_LLPAH\_CMSK\*sub4  
 Method: \\ChromNA\Savannah\ChromData\CMSK\20150813-22239.b\8270\_LLPAH\_CMSK.m  
 Limit Group: 8270D\_LL\_PAH  
 Last Update: 14-Aug-2015 10:58:40 Calib Date: 13-Aug-2015 20:12:30  
 Integrator: RTE ID Type: Deconvolution ID  
 Quant Method: Internal Standard Quant By: Initial Calibration  
 Last ICal File: \\ChromNA\Savannah\ChromData\CMSK\20150813-22239.b\1KF13008.D  
 Column 1 : Restek RXi-5Sil MS ( 0.25 mm) Det: MS SCAN  
 Process Host: XAWRK008

First Level Reviewer: moorer

Date: 14-Aug-2015 10:37:47

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
* 1 Naphthalene-d8	136	4.260	4.260	0.000	99	171892	2.00	2.00	
* 2 Acenaphthene-d10	164	6.052	6.052	0.000	97	82511	2.00	2.00	
* 3 Phenanthrene-d10	188	7.662	7.662	0.000	98	164103	2.00	2.00	
* 4 Chrysene-d12	240	10.494	10.506	-0.012	99	182474	2.00	2.00	
* 5 Perylene-d12	264	12.045	12.063	-0.018	99	176743	2.00	2.00	
\$ 6 o-Terphenyl	230	8.097	8.097	0.000	90	42132	1.00	0.9561	
7 Naphthalene	128	4.277	4.284	-0.007	99	78740	1.00	0.99	
8 2-Methylnaphthalene	142	4.959	4.959	0.000	86	51035	1.00	0.9880	
9 1-Methylnaphthalene	142	5.059	5.059	0.000	93	45633	1.00	0.9895	
10 1,1'-Biphenyl	154	5.441	5.441	0.000	99	56526	1.00	0.99	
11 Acenaphthylene	152	5.893	5.899	-0.006	97	73053	1.00	0.9898	
12 Acenaphthene	153	6.081	6.087	-0.006	95	48563	1.00	1.00	
13 Dibenzofuran	168	6.269	6.269	0.000	100	60641	1.00	0.9789	
14 Fluorene	166	6.639	6.640	-0.001	95	52369	1.00	0.9856	
15 Phenanthrene	178	7.685	7.691	-0.006	97	78979	1.00	0.9705	
16 Anthracene	178	7.744	7.744	0.000	98	67479	1.00	0.9791	
17 Fluoranthene	202	8.984	8.984	0.000	97	83157	1.00	0.9589	
18 Pyrene	202	9.219	9.225	-0.006	97	86853	1.00	0.99	
19 Benzo[a]anthracene	228	10.488	10.494	-0.006	98	83943	1.00	0.9739	
20 Chrysene	228	10.523	10.535	-0.012	98	84718	1.00	1.00	
21 Benzo[b]fluoranthene	252	11.604	11.622	-0.018	98	81051	1.00	0.9413	
22 Benzo[k]fluoranthene	252	11.634	11.652	-0.018	98	90544	1.00	1.00	
23 Benzo[a]pyrene	252	11.974	11.992	-0.018	97	75003	1.00	0.9732	
24 Indeno[1,2,3-cd]pyrene	276	13.531	13.555	-0.024	97	81197	1.00	1.02	
25 Dibenz(a,h)anthracene	278	13.561	13.585	-0.024	97	65142	1.00	0.9720	
26 Benzo[g,h,i]perylene	276	13.978	14.008	-0.030	98	69564	1.00	1.02	

Report Date: 14-Aug-2015 10:58:40

Chrom Revision: 2.2 23-Jul-2015 08:26:08

**Reagents:**

SMLLPAH1.0LVI\_00025

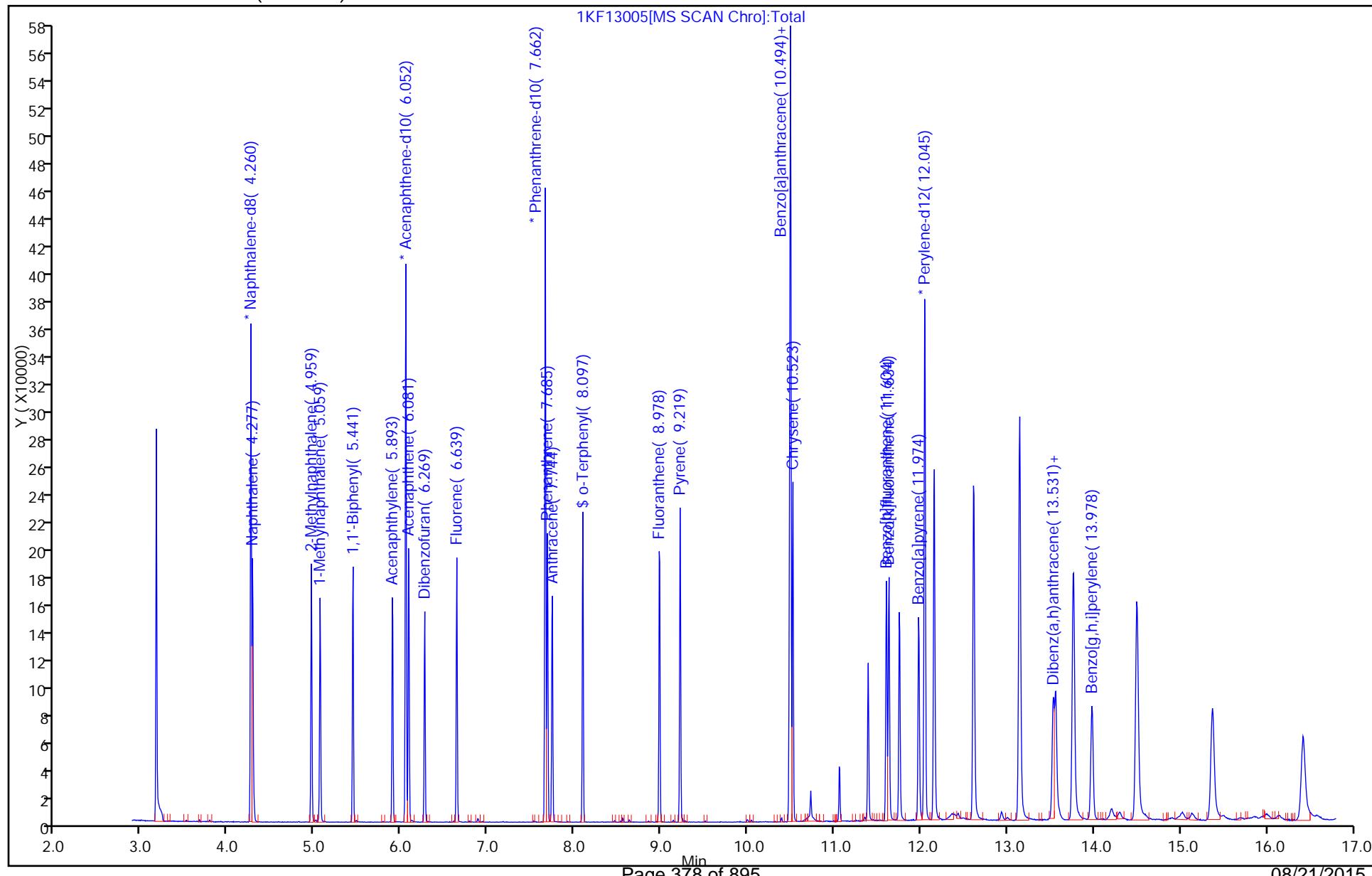
Amount Added: 1.00

Units: mL

Report Date: 14-Aug-2015 10:58:40

Chrom Revision: 2.2 23-Jul-2015 08:26:08

Data File: \\ChromNA\\Savannah\\ChromData\CMSK\\20150813-22239.b\\1KF13005.D  
 Injection Date: 13-Aug-2015 18:52:30 Instrument ID: CMSK  
 Lims ID: IC Operator ID: LIMS import  
 Client ID:  
 Injection Vol: 2.0 ul Worklist Smp#: 5  
 Method: 8270\_LLPAH\_CMSK Dil. Factor: 1.0000  
 Column: Restek RXi-5Sil MS ( 0.25 mm) Limit Group: 8270D\_LL\_PAH



TestAmerica Savannah  
Target Compound Quantitation Report

Data File: \\ChromNA\Savannah\ChromData\CMSK\20150813-22239.b\1KF13006.D  
 Lims ID: IC  
 Client ID:  
 Sample Type: IC Calib Level: 3  
 Inject. Date: 13-Aug-2015 19:19:30 ALS Bottle#: 6 Worklist Smp#: 6  
 Injection Vol: 2.0 ul Dil. Factor: 1.0000  
 Sample Info: IC  
 Misc. Info.: 680-0022239-006  
 Operator ID: LIMS import Instrument ID: CMSK  
 Sublist: chrom-8270\_LLPAH\_CMSK\*sub4  
 Method: \\ChromNA\Savannah\ChromData\CMSK\20150813-22239.b\8270\_LLPAH\_CMSK.m  
 Limit Group: 8270D\_LL\_PAH  
 Last Update: 14-Aug-2015 10:58:41 Calib Date: 13-Aug-2015 20:12:30  
 Integrator: RTE ID Type: Deconvolution ID  
 Quant Method: Internal Standard Quant By: Initial Calibration  
 Last ICal File: \\ChromNA\Savannah\ChromData\CMSK\20150813-22239.b\1KF13008.D  
 Column 1 : Restek RXi-5Sil MS ( 0.25 mm) Det: MS SCAN  
 Process Host: XAWRK008

First Level Reviewer: moorer

Date:

14-Aug-2015 10:38:00

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
* 1 Naphthalene-d8	136	4.260	4.260	0.000	99	176782	2.00	2.00	
* 2 Acenaphthene-d10	164	6.052	6.052	0.000	95	84546	2.00	2.00	
* 3 Phenanthrene-d10	188	7.662	7.662	0.000	98	165868	2.00	2.00	
* 4 Chrysene-d12	240	10.488	10.506	-0.018	99	179387	2.00	2.00	
* 5 Perylene-d12	264	12.033	12.063	-0.030	99	177114	2.00	2.00	
\$ 6 o-Terphenyl	230	8.097	8.097	0.000	90	21591	0.5000	0.4984	
7 Naphthalene	128	4.277	4.284	-0.007	99	40994	0.5000	0.5022	
8 2-Methylnaphthalene	142	4.959	4.959	0.000	85	25780	0.5000	0.4853	
9 1-Methylnaphthalene	142	5.059	5.059	0.000	93	23422	0.5000	0.4939	
10 1,1'-Biphenyl	154	5.441	5.441	0.000	99	28912	0.5000	0.4952	
11 Acenaphthylene	152	5.893	5.899	-0.006	97	37115	0.5000	0.4908	
12 Acenaphthene	153	6.081	6.087	-0.006	96	24957	0.5000	0.4991	
13 Dibenzofuran	168	6.269	6.269	0.000	99	31648	0.5000	0.4986	
14 Fluorene	166	6.639	6.640	-0.001	95	26456	0.5000	0.4859	
15 Phenanthrene	178	7.685	7.691	-0.006	97	40258	0.5000	0.4894	
16 Anthracene	178	7.744	7.744	0.000	98	33815	0.5000	0.4854	
17 Fluoranthene	202	8.984	8.984	0.000	97	42142	0.5000	0.4808	
18 Pyrene	202	9.219	9.225	-0.006	97	44472	0.5000	0.5176	
19 Benzo[a]anthracene	228	10.482	10.494	-0.012	98	42954	0.5000	0.5069	
20 Chrysene	228	10.517	10.535	-0.018	98	42669	0.5000	0.5148	
21 Benzo[b]fluoranthene	252	11.593	11.622	-0.030	98	40895	0.5000	0.4740	
22 Benzo[k]fluoranthene	252	11.622	11.652	-0.030	98	44875	0.5000	0.4923	
23 Benzo[a]pyrene	252	11.963	11.992	-0.029	97	37511	0.5000	0.4857	
24 Indeno[1,2,3-cd]pyrene	276	13.514	13.555	-0.041	97	38797	0.5000	0.4979	
25 Dibenz(a,h)anthracene	278	13.543	13.585	-0.042	95	30777	0.5000	0.4583	
26 Benzo[g,h,i]perylene	276	13.960	14.008	-0.048	98	32986	0.5000	0.4821	

Report Date: 14-Aug-2015 10:58:41

Chrom Revision: 2.2 23-Jul-2015 08:26:08

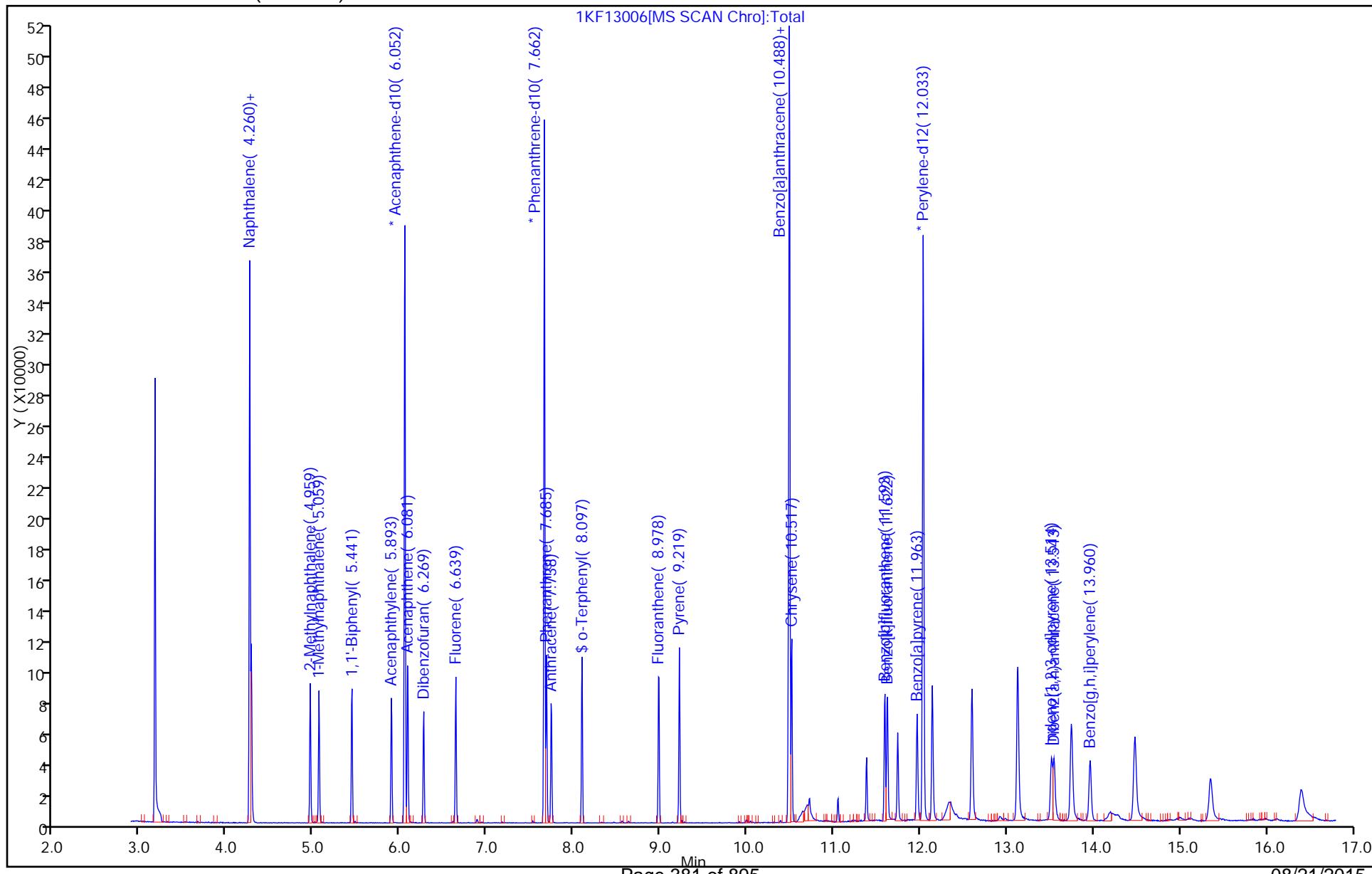
**Reagents:**

SMLLPAH0.5LVI\_00026

Amount Added: 1.00

Units: mL

Data File: \\ChromNA\\Savannah\\ChromData\CMSK\\20150813-22239.b\\1KF13006.D  
 Injection Date: 13-Aug-2015 19:19:30 Instrument ID: CMSK  
 Lims ID: IC Operator ID: LIMS import  
 Client ID:  
 Injection Vol: 2.0 ul Worklist Smp#: 6  
 Method: 8270\_LLPAH\_CMSK Dil. Factor: 1.0000  
 Column: Restek RXi-5Sil MS ( 0.25 mm) Limit Group: 8270D\_LL\_PAH



TestAmerica Savannah  
Target Compound Quantitation Report

Data File: \\ChromNA\Savannah\ChromData\CMSK\20150813-22239.b\1KF13007.D  
 Lims ID: IC  
 Client ID:  
 Sample Type: IC Calib Level: 2  
 Inject. Date: 13-Aug-2015 19:45:30 ALS Bottle#: 7 Worklist Smp#: 7  
 Injection Vol: 2.0 ul Dil. Factor: 1.0000  
 Sample Info: IC  
 Misc. Info.: 680-0022239-007  
 Operator ID: LIMS import Instrument ID: CMSK  
 Sublist: chrom-8270\_LLPAH\_CMSK\*sub4  
 Method: \\ChromNA\Savannah\ChromData\CMSK\20150813-22239.b\8270\_LLPAH\_CMSK.m  
 Limit Group: 8270D\_LL\_PAH  
 Last Update: 14-Aug-2015 10:58:42 Calib Date: 13-Aug-2015 20:12:30  
 Integrator: RTE ID Type: Deconvolution ID  
 Quant Method: Internal Standard Quant By: Initial Calibration  
 Last ICal File: \\ChromNA\Savannah\ChromData\CMSK\20150813-22239.b\1KF13008.D  
 Column 1 : Restek RXi-5Sil MS ( 0.25 mm) Det: MS SCAN  
 Process Host: XAWRK008

First Level Reviewer: moorer

Date:

14-Aug-2015 10:38:14

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
* 1 Naphthalene-d8	136	4.260	4.260	0.000	99	182634	2.00	2.00	
* 2 Acenaphthene-d10	164	6.052	6.052	0.000	97	88123	2.00	2.00	
* 3 Phenanthrene-d10	188	7.662	7.662	0.000	98	171896	2.00	2.00	
* 4 Chrysene-d12	240	10.488	10.506	-0.018	99	186506	2.00	2.00	
* 5 Perylene-d12	264	12.027	12.063	-0.036	99	177435	2.00	2.00	
\$ 6 o-Terphenyl	230	8.097	8.097	0.000	89	10668	0.2000	0.2368	
7 Naphthalene	128	4.277	4.284	-0.007	98	17000	0.2000	0.2016	
8 2-Methylnaphthalene	142	4.959	4.959	0.000	85	10454	0.2000	0.1905	
9 1-Methylnaphthalene	142	5.059	5.059	0.000	94	9504	0.2000	0.1940	
10 1,1'-Biphenyl	154	5.441	5.441	0.000	98	11775	0.2000	0.1935	
11 Acenaphthylene	152	5.893	5.899	-0.006	97	14951	0.2000	0.1897	
12 Acenaphthene	153	6.081	6.087	-0.006	95	9992	0.2000	0.1917	
13 Dibenzofuran	168	6.269	6.269	0.000	99	13067	0.2000	0.1975	
14 Fluorene	166	6.639	6.640	-0.001	95	10624	0.2000	0.1872	
15 Phenanthrene	178	7.685	7.691	-0.006	97	16512	0.2000	0.1937	
16 Anthracene	178	7.738	7.744	-0.006	98	13774	0.2000	0.1908	
17 Fluoranthene	202	8.978	8.984	-0.006	98	17361	0.2000	0.1911	
18 Pyrene	202	9.219	9.225	-0.006	96	17489	0.2000	0.1958	
19 Benzo[a]anthracene	228	10.476	10.494	-0.018	98	17548	0.2000	0.1992	
20 Chrysene	228	10.517	10.535	-0.018	99	17667	0.2000	0.2050	
21 Benzo[b]fluoranthene	252	11.581	11.622	-0.041	98	16597	0.2000	0.1920	
22 Benzo[k]fluoranthene	252	11.610	11.652	-0.042	98	17124	0.2000	0.1875	
23 Benzo[a]pyrene	252	11.957	11.992	-0.035	96	14343	0.2000	0.1854	
24 Indeno[1,2,3-cd]pyrene	276	13.502	13.555	-0.053	98	14176	0.2000	0.1750	
25 Dibenz(a,h)anthracene	278	13.531	13.585	-0.054	95	11361	0.2000	0.1689	
26 Benzo[g,h,i]perylene	276	13.949	14.008	-0.059	97	12610	0.2000	0.1840	

Report Date: 14-Aug-2015 10:58:42

Chrom Revision: 2.2 23-Jul-2015 08:26:08

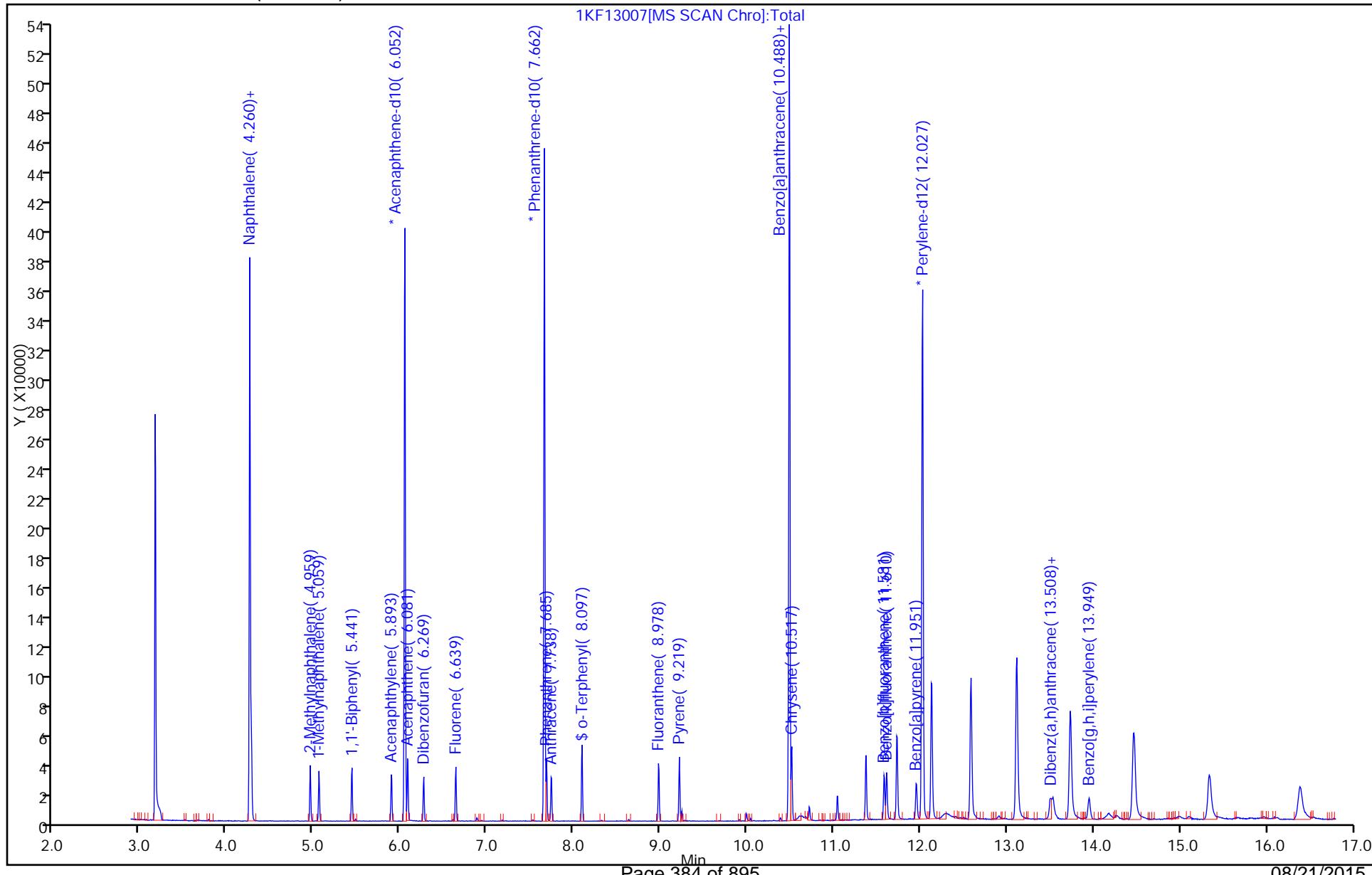
**Reagents:**

SMLLPAH0.2LVI\_00026

Amount Added: 1.00

Units: mL

Data File: \\ChromNA\\Savannah\\ChromData\CMSK\\20150813-22239.b\\1KF13007.D  
 Injection Date: 13-Aug-2015 19:45:30 Instrument ID: CMSK  
 Lims ID: IC Operator ID: LIMS import  
 Client ID:  
 Injection Vol: 2.0 ul Worklist Smp#: 7  
 Method: 8270\_LLPAH\_CMSK Dil. Factor: 1.0000  
 Column: Restek RXi-5Sil MS ( 0.25 mm) Limit Group: 8270D\_LL\_PAH



TestAmerica Savannah  
Target Compound Quantitation Report

Data File: \\ChromNA\Savannah\ChromData\CMSK\20150813-22239.b\1KF13008.D  
 Lims ID: IC  
 Client ID:  
 Sample Type: IC Calib Level: 1  
 Inject. Date: 13-Aug-2015 20:12:30 ALS Bottle#: 8 Worklist Smp#: 8  
 Injection Vol: 2.0 ul Dil. Factor: 1.0000  
 Sample Info: IC  
 Misc. Info.: 680-0022239-008  
 Operator ID: LIMS import Instrument ID: CMSK  
 Sublist: chrom-8270\_LLPAH\_CMSK\*sub4  
 Method: \\ChromNA\Savannah\ChromData\CMSK\20150813-22239.b\8270\_LLPAH\_CMSK.m  
 Limit Group: 8270D\_LL\_PAH  
 Last Update: 14-Aug-2015 10:58:43 Calib Date: 13-Aug-2015 20:12:30  
 Integrator: RTE ID Type: Deconvolution ID  
 Quant Method: Internal Standard Quant By: Initial Calibration  
 Last ICal File: \\ChromNA\Savannah\ChromData\CMSK\20150813-22239.b\1KF13008.D  
 Column 1 : Restek RXi-5Sil MS ( 0.25 mm) Det: MS SCAN  
 Process Host: XAWRK008

First Level Reviewer: moorer

Date:

14-Aug-2015 10:38:29

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
* 1 Naphthalene-d8	136	4.260	4.260	0.000	99	183152	2.00	2.00	
* 2 Acenaphthene-d10	164	6.046	6.052	-0.006	97	86241	2.00	2.00	
* 3 Phenanthrene-d10	188	7.662	7.662	0.000	98	167285	2.00	2.00	
* 4 Chrysene-d12	240	10.482	10.506	-0.024	99	181472	2.00	2.00	
* 5 Perylene-d12	264	12.010	12.063	-0.053	99	169334	2.00	2.00	
\$ 6 o-Terphenyl	230	8.097	8.097	0.000	90	4112	0.1000	0.0938	
7 Naphthalene	128	4.278	4.284	-0.006	98	8250	0.1000	0.0975	
8 2-Methylnaphthalene	142	4.959	4.959	0.000	86	5058	0.1000	0.0919	
9 1-Methylnaphthalene	142	5.059	5.059	0.000	93	4529	0.1000	0.0922	
10 1,1'-Biphenyl	154	5.441	5.441	0.000	98	5703	0.1000	0.0958	
11 Acenaphthylene	152	5.893	5.899	-0.006	98	7194	0.1000	0.0933	
12 Acenaphthene	153	6.081	6.087	-0.006	95	4886	0.1000	0.0958	
13 Dibenzofuran	168	6.270	6.269	0.001	99	6192	0.1000	0.0956	
14 Fluorene	166	6.640	6.640	0.000	95	5145	0.1000	0.0926	
15 Phenanthrene	178	7.686	7.691	-0.005	96	7836	0.1000	0.0945	
16 Anthracene	178	7.738	7.744	-0.006	97	6266	0.1000	0.0892	
17 Fluoranthene	202	8.978	8.984	-0.006	97	7989	0.1000	0.0904	
18 Pyrene	202	9.219	9.225	-0.006	97	8210	0.1000	0.0945	
19 Benzo[a]anthracene	228	10.471	10.494	-0.023	99	8563	0.1000	0.0999	
20 Chrysene	228	10.506	10.535	-0.029	98	8175	0.1000	0.0975	
21 Benzo[b]fluoranthene	252	11.569	11.622	-0.053	98	7576	0.1000	0.0918	
22 Benzo[k]fluoranthene	252	11.599	11.652	-0.053	97	8775	0.1000	0.1007	
23 Benzo[a]pyrene	252	11.939	11.992	-0.053	97	6791	0.1000	0.0920	
24 Indeno[1,2,3-cd]pyrene	276	13.485	13.555	-0.070	97	6681	0.1000	0.0848	
25 Dibenz(a,h)anthracene	278	13.514	13.585	-0.071	92	5350	0.1000	0.0833	
26 Benzo[g,h,i]perylene	276	13.931	14.008	-0.077	97	5954	0.1000	0.0910	

Report Date: 14-Aug-2015 10:58:44

Chrom Revision: 2.2 23-Jul-2015 08:26:08

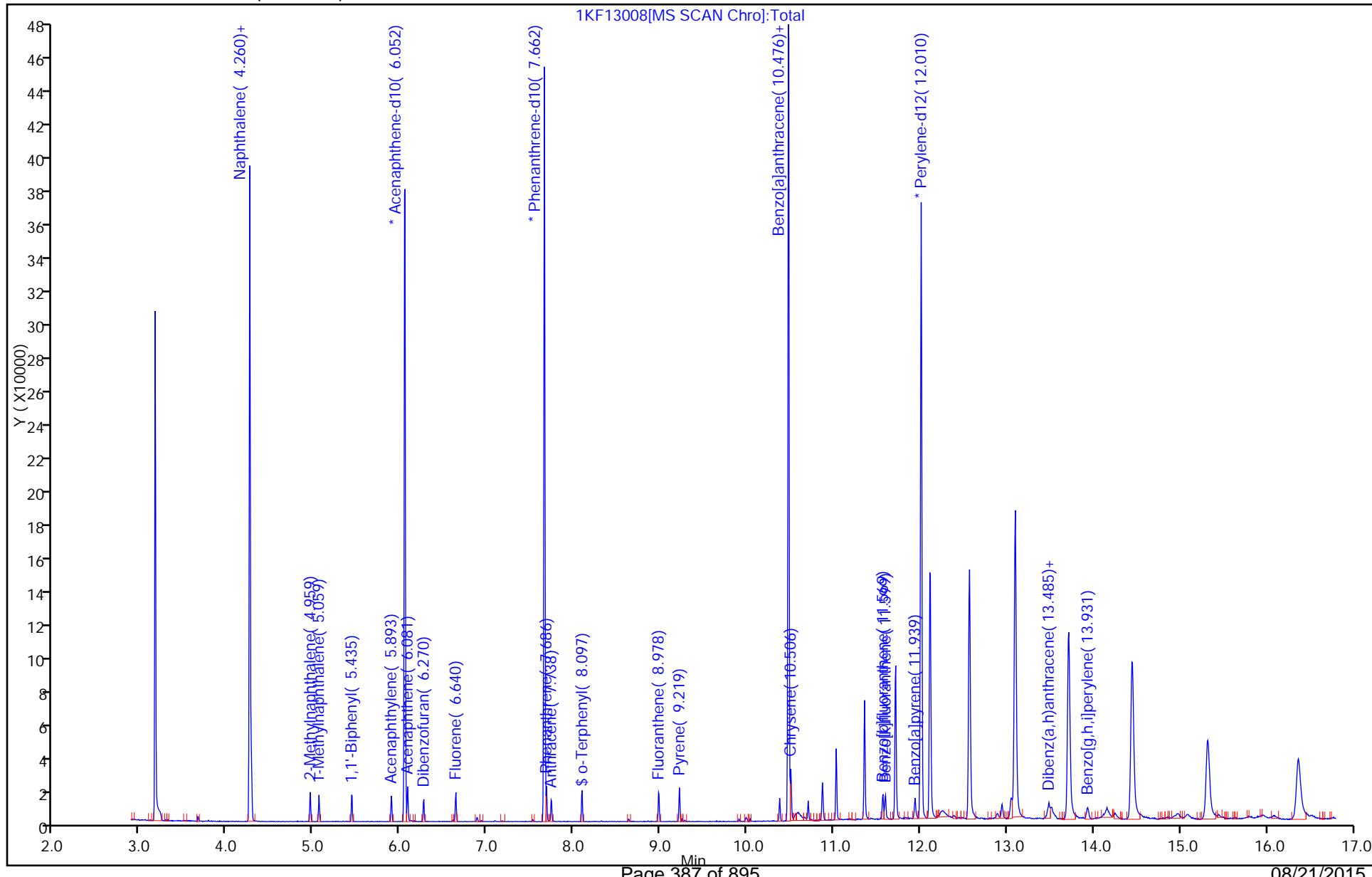
**Reagents:**

SMLLPAH0.1LVI\_00027

Amount Added: 1.00

Units: mL

Data File: \\ChromNA\\Savannah\\ChromData\CMSK\\20150813-22239.b\\1KF13008.D  
 Injection Date: 13-Aug-2015 20:12:30 Instrument ID: CMSK  
 Lims ID: IC Operator ID: LIMS import  
 Client ID:  
 Injection Vol: 2.0 ul Worklist Smp#: 8  
 Method: 8270\_LLPAH\_CMSK Dil. Factor: 1.0000  
 Column: Restek RXi-5Sil MS ( 0.25 mm) Limit Group: 8270D\_LL\_PAH



FORM VI  
GC/MS SEMI VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA  
CURVE EVALUATION

Lab Name: TestAmerica Savannah

Job No.: 680-115692-1

Analy Batch No.: 395667

SDG No.: 680-115692-01

Instrument ID: CMSY

GC Column: RXi- 5Sil M ID: 0.25(mm)

Heated Purge: (Y/N) N

Calibration Start Date: 08/12/2015 13:48

Calibration End Date: 08/12/2015 16:37

Calibration ID: 40920

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 680-395667/8	1YF12008.D
Level 2	IC 680-395667/7	1YF12007.D
Level 3	IC 680-395667/6	1YF12006.D
Level 4	IC 680-395667/5	1YF12005.D
Level 5	ICIS 680-395667/4	1YF12004.D
Level 6	IC 680-395667/3	1YF12003.D
Level 7	IC 680-395667/2	1YF12002.D

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5		B	M1	M2								
Naphthalene	0.8481 0.9434	0.8809 0.9918	0.9079	0.8630	0.8846	Ave		0.9028			0.7000	5.5		20.0			
2-Methylnaphthalene	0.6299 0.6875	0.6058 0.7194	0.6220	0.6247	0.6275	Ave		0.6453			0.4000	6.4		20.0			
1-Methylnaphthalene	0.5619 0.5992	0.5748 0.6174	0.5611	0.5396	0.5562	Ave		0.5729					4.7	20.0			
1,1'-Biphenyl	1.2973 1.4486	1.3740 1.5040	1.3542	1.2808	1.3422	Ave		1.3716				5.8		20.0			
Acenaphthylene	1.6471 1.9467	1.8321 1.9999	1.7908	1.7632	1.8148	Ave		1.8278			0.9000	6.4		20.0			
Acenaphthene	1.1299 1.2490	1.2120 1.3168	1.1697	1.1312	1.1612	Ave		1.1957			0.9000	5.7		20.0			
Dibenzofuran	1.4606 1.6661	1.5601 1.7500	1.5677	1.5254	1.5755	Ave		1.5865				6.0		20.0			
Fluorene	1.2043 1.4695	1.3475 1.5661	1.2958	1.3406	1.4024	Ave		1.3752			0.9000	8.6		20.0			
Phenanthrene	0.9077 1.0081	0.9534 1.0527	0.9387	0.9095	0.9209	Ave		0.9559			0.7000	5.7		20.0			
Anthracene	0.8060 0.8639	0.7807 0.9187	0.8035	0.7814	0.7903	Ave		0.8207			0.7000	6.3		20.0			
Fluoranthene	1.0988 1.2187	1.0949 1.2818	1.1123	1.1112	1.1212	Ave		1.1484			0.6000	6.3		20.0			
Pyrene	0.8447 0.9322	0.8507 0.9355	0.8599	0.8693	0.8262	Ave		0.8741			0.6000	4.9		20.0			
Benzo[a]anthracene	0.9841 0.9893	0.9429 0.9931	0.9667	0.9559	0.9054	Ave		0.9625			0.7000	3.2		20.0			
Chrysene	0.9134 0.9490	0.9399 0.9605	0.9223	0.8966	0.8585	Ave		0.9200			0.7000	3.8		20.0			

Note: The m1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI  
GC/MS SEMI VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA  
CURVE EVALUATION

Lab Name: TestAmerica Savannah Job No.: 680-115692-1 Analy Batch No.: 395667  
SDG No.: 680-115692-01  
Instrument ID: CMSY GC Column: RXi- 5Sil M ID: 0.25(mm) Heated Purge: (Y/N) N  
Calibration Start Date: 08/12/2015 13:48 Calibration End Date: 08/12/2015 16:37 Calibration ID: 40920

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5		B	M1	M2								
Benzo[b]fluoranthene	0.9349 1.0126	0.9595 1.0473	0.9980	0.9766	0.9142	Ave		0.9776			0.4000	4.7		20.0			
Benzo[k]fluoranthene	0.9039 0.9928	0.9326 1.0532	0.9420	0.9251	0.9290	Ave		0.9541			0.4000	5.4		20.0			
Benzo[a]pyrene	0.8534 0.9471	0.8819 0.9841	0.9174	0.9015	0.8773	Ave		0.9090			0.4000	4.9		20.0			
Indeno[1,2,3-cd]pyrene	1.4176 1.5591	1.4507 1.5690	1.4052	1.4683	1.4233	Ave		1.4705			0.2000	4.6		20.0			
Dibenz(a,h)anthracene	1.0323 1.1903	1.0769 1.2564	1.0741	1.0755	1.0586	Ave		1.1091			0.2000	7.4		20.0			
Benzo[g,h,i]perylene	1.0313 1.1100	1.0331 1.1412	1.0434	1.0349	1.0068	Ave		1.0572			0.2000	4.6		20.0			
o-Terphenyl	0.4406 0.4717	0.5335 0.4794	0.4292	0.4264	0.4179	Ave		0.4570				9.0		20.0			

Note: The m1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI  
GC/MS SEMI VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA  
RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Savannah

Job No.: 680-115692-1

Analy Batch No.: 395667

SDG No.: 680-115692-01

Instrument ID: CMSY

GC Column: RXi- 5Sil M ID: 0.25(mm)

Heated Purge: (Y/N) N

Calibration Start Date: 08/12/2015 13:48

Calibration End Date: 08/12/2015 16:37

Calibration ID: 40920

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 680-395667/8	1YF12008.D
Level 2	IC 680-395667/7	1YF12007.D
Level 3	IC 680-395667/6	1YF12006.D
Level 4	IC 680-395667/5	1YF12005.D
Level 5	ICIS 680-395667/4	1YF12004.D
Level 6	IC 680-395667/3	1YF12003.D
Level 7	IC 680-395667/2	1YF12002.D

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/ML)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5
Naphthalene	NPT	Ave	2877 351253	6281 810133	15633	30589	177015	0.100 10.0	0.200 20.0	0.500	1.00	5.00
2-Methylnaphthalene	NPT	Ave	2137 255974	4319 587657	10710	22143	125571	0.100 10.0	0.200 20.0	0.500	1.00	5.00
1-Methylnaphthalene	NPT	Ave	1906 223107	4098 504292	9661	19127	111292	0.100 10.0	0.200 20.0	0.500	1.00	5.00
1,1'-Biphenyl	ANT	Ave	2511 302035	5436 666729	12952	25222	148837	0.100 10.0	0.200 20.0	0.500	1.00	5.00
Acenaphthylene	ANT	Ave	3188 405878	7248 886525	17128	34722	201239	0.100 10.0	0.200 20.0	0.500	1.00	5.00
Acenaphthene	ANT	Ave	2187 260425	4795 583721	11187	22277	128764	0.100 10.0	0.200 20.0	0.500	1.00	5.00
Dibenzofuran	ANT	Ave	2827 347390	6172 775747	14994	30039	174701	0.100 10.0	0.200 20.0	0.500	1.00	5.00
Fluorene	ANT	Ave	2331 306396	5331 694242	12393	26399	155511	0.100 10.0	0.200 20.0	0.500	1.00	5.00
Phenanthrene	PHN	Ave	3748 465519	8456 1043229	19528	39585	231956	0.100 10.0	0.200 20.0	0.500	1.00	5.00
Anthracene	PHN	Ave	3328 398957	6924 910517	16715	34011	199063	0.100 10.0	0.200 20.0	0.500	1.00	5.00
Fluoranthene	PHN	Ave	4537 562780	9711 1270323	23140	48363	282407	0.100 10.0	0.200 20.0	0.500	1.00	5.00
Pyrene	CRY	Ave	4751 591982	9812 1328480	25241	51055	292847	0.100 10.0	0.200 20.0	0.500	1.00	5.00
Benzo[a]anthracene	CRY	Ave	5535 628294	10876 1410219	28374	56140	320911	0.100 10.0	0.200 20.0	0.500	1.00	5.00
Chrysene	CRY	Ave	5137 602682	10841 1363972	27071	52660	304314	0.100 10.0	0.200 20.0	0.500	1.00	5.00
Benzo[b]fluoranthene	PRY	Ave	6219 739335	13078 1646906	33398	66824	376759	0.100 10.0	0.200 20.0	0.500	1.00	5.00

FORM VI  
GC/MS SEMI VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA  
RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Savannah Job No.: 680-115692-1 Analy Batch No.: 395667  
SDG No.: 680-115692-01

Instrument ID: CMSY GC Column: RXi- 5Sil M ID: 0.25 (mm) Heated Purge: (Y/N) N  
Calibration Start Date: 08/12/2015 13:48 Calibration End Date: 08/12/2015 16:37 Calibration ID: 40920

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/ML)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5
Benzo[k]fluoranthene	PRY	Ave	6013 724885	12711 1656177	31524	63306	382853	0.100 10.0	0.200 20.0	0.500	1.00	5.00
Benzo[a]pyrene	PRY	Ave	5677 691521	12020 1547492	30702	61691	361552	0.100 10.0	0.200 20.0	0.500	1.00	5.00
Indeno[1,2,3-cd]pyrene	CRY	Ave	7973 990122	16733 2228131	41246	86239	504502	0.100 10.0	0.200 20.0	0.500	1.00	5.00
Dibenz(a,h)anthracene	PRY	Ave	6867 869121	14678 1975670	35945	73594	436265	0.100 10.0	0.200 20.0	0.500	1.00	5.00
Benzo[g,h,i]perylene	PRY	Ave	6860 810489	14082 1794600	34917	70813	414951	0.100 10.0	0.200 20.0	0.500	1.00	5.00
o-Terphenyl	CRY	Ave	2478 299585	6154 680850	12598	25042	148132	0.100 10.0	0.200 20.0	0.500	1.00	5.00

Curve Type Legend:

Ave = Average ISTD

TestAmerica Savannah  
Target Compound Quantitation Report

Data File: \\ChromNA\Savannah\ChromData\CMSY\20150812-22174.b\1YF12002.D  
 Lims ID: IC  
 Client ID:  
 Sample Type: IC Calib Level: 7  
 Inject. Date: 12-Aug-2015 13:48:30 ALS Bottle#: 2 Worklist Smp#: 2  
 Injection Vol: 2.0 ul Dil. Factor: 1.0000  
 Sample Info: IC  
 Misc. Info.: 680-0022174-002  
 Operator ID: LIMS import Instrument ID: CMSY  
 Sublist: chrom-8270D\_LLPAH\_MSY\*sub5  
 Method: \\ChromNA\Savannah\ChromData\CMSY\20150812-22174.b\8270D\_LLPAH\_MSY.m  
 Limit Group: 8270D\_LL\_PAH  
 Last Update: 13-Aug-2015 09:19:47 Calib Date: 12-Aug-2015 16:37:30  
 Integrator: RTE ID Type: Deconvolution ID  
 Quant Method: Internal Standard Quant By: Initial Calibration  
 Last ICal File: \\ChromNA\Savannah\ChromData\CMSY\20150812-22174.b\1YF12008.D  
 Column 1 : Restek RXi-5Sil MS ( 0.25 mm) Det: MS SCAN  
 Process Host: XAWRK050

First Level Reviewer: millsj

Date:

13-Aug-2015 09:08:54

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
* 1 Naphthalene-d8	136	6.445	6.441	0.004	99	81684	2.00	2.00	
* 2 Acenaphthene-d10	164	8.055	8.050	0.005	97	44329	2.00	2.00	
* 3 Phenanthrene-d10	188	9.393	9.382	0.011	97	99105	2.00	2.00	
* 4 Chrysene-d12	240	11.896	11.869	0.027	98	142007	2.00	2.00	
* 5 Perylene-d12	264	13.693	13.667	0.026	99	157251	2.00	2.00	
\$ 6 o-Terphenyl	230	9.740	9.730	0.010	91	680850	20.0	21.0	
7 Naphthalene	128	6.467	6.462	0.005	98	810133	20.0	22.0	
9 2-Methylnaphthalene	142	7.119	7.109	0.010	83	587657	20.0	22.3	
10 1-Methylnaphthalene	142	7.205	7.195	0.010	91	504292	20.0	21.6	
11 1,1'-Biphenyl	154	7.547	7.537	0.010	99	666729	20.0	21.9	
12 Acenaphthylene	152	7.932	7.922	0.010	97	886525	20.0	21.9	
14 Acenaphthene	153	8.088	8.077	0.011	95	583721	20.0	22.0	
15 Dibenzofuran	168	8.248	8.238	0.010	99	775747	20.0	22.1	
16 Fluorene	166	8.558	8.548	0.010	95	694242	20.0	22.8	
17 Phenanthrene	178	9.419	9.409	0.010	97	1043229	20.0	22.0	
18 Anthracene	178	9.467	9.452	0.015	99	910517	20.0	22.4	
19 Fluoranthene	202	10.494	10.479	0.015	98	1270323	20.0	22.3	
20 Pyrene	202	10.703	10.682	0.021	99	1328480	20.0	21.4	
21 Benzo[a]anthracene	228	11.890	11.853	0.037	97	1410219	20.0	20.6	
22 Chrysene	228	11.933	11.896	0.037	99	1363972	20.0	20.9	
23 Benzo[b]fluoranthene	252	13.201	13.158	0.043	97	1646906	20.0	21.4	
24 Benzo[k]fluoranthene	252	13.244	13.196	0.048	97	1656177	20.0	22.1	
25 Benzo[a]pyrene	252	13.645	13.597	0.048	98	1547492	20.0	21.7	
26 Indeno[1,2,3-cd]pyrene	276	15.244	15.180	0.064	89	2228131	20.0	21.3	
27 Dibenz(a,h)anthracene	278	15.260	15.196	0.064	96	1975670	20.0	22.7	
28 Benzo[g,h,i]perylene	276	15.618	15.555	0.063	96	1794600	20.0	21.6	

Report Date: 13-Aug-2015 09:19:47

Chrom Revision: 2.2 23-Jul-2015 08:26:08

**Reagents:**

SMLLPAH20LVI\_00030

Amount Added: 1.00

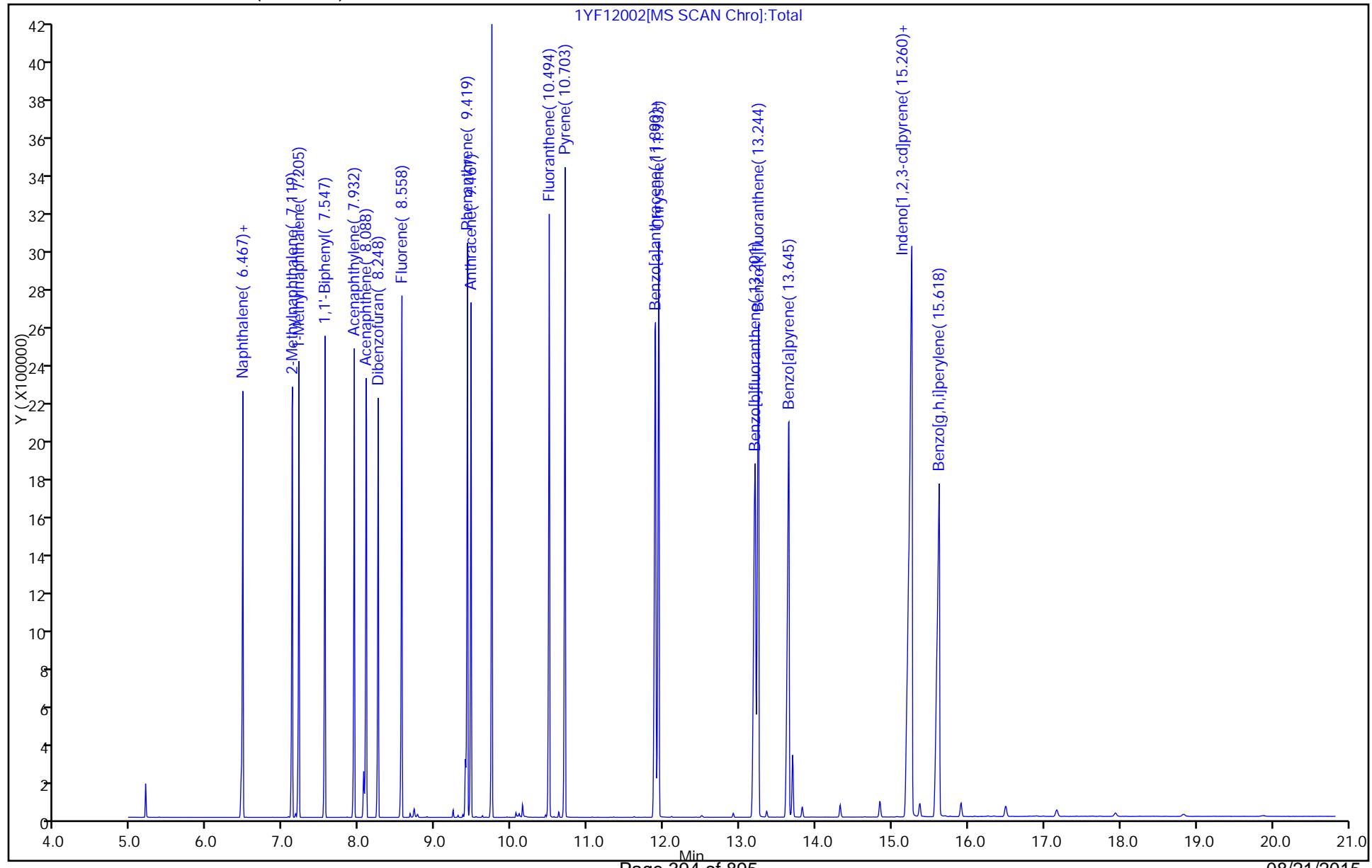
Units: mL

Report Date: 13-Aug-2015 09:19:47

Chrom Revision: 2.2 23-Jul-2015 08:26:08

## TestAmerica Savannah

Data File: \\ChromNA\\Savannah\\ChromData\\CMSY\\20150812-22174.b\\1YF12002.D  
 Injection Date: 12-Aug-2015 13:48:30 Instrument ID: CMSY  
 Lims ID: IC Operator ID: LIMS import  
 Client ID:  
 Injection Vol: 2.0 ul Worklist Smp#: 2  
 Method: 8270D\_LLPAH\_MSY Dil. Factor: 1.0000  
 Column: Restek RXi-5Sil MS ( 0.25 mm) Limit Group: 8270D\_LL\_PAH



TestAmerica Savannah  
Target Compound Quantitation Report

Data File: \\ChromNA\Savannah\ChromData\CMSY\20150812-22174.b\1YF12003.D  
 Lims ID: IC  
 Client ID:  
 Sample Type: IC Calib Level: 6  
 Inject. Date: 12-Aug-2015 14:16:30 ALS Bottle#: 3 Worklist Smp#: 3  
 Injection Vol: 2.0 ul Dil. Factor: 1.0000  
 Sample Info: IC  
 Misc. Info.: 680-0022174-003  
 Operator ID: LIMS import Instrument ID: CMSY  
 Sublist: chrom-8270D\_LLPAH\_MSY\*sub5  
 Method: \\ChromNA\Savannah\ChromData\CMSY\20150812-22174.b\8270D\_LLPAH\_MSY.m  
 Limit Group: 8270D\_LL\_PAH  
 Last Update: 13-Aug-2015 09:19:48 Calib Date: 12-Aug-2015 16:37:30  
 Integrator: RTE ID Type: Deconvolution ID  
 Quant Method: Internal Standard Quant By: Initial Calibration  
 Last ICal File: \\ChromNA\Savannah\ChromData\CMSY\20150812-22174.b\1YF12008.D  
 Column 1 : Restek RXi-5Sil MS ( 0.25 mm) Det: MS SCAN  
 Process Host: XAWRK050

First Level Reviewer: millsj

Date:

13-Aug-2015 09:17:49

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
* 1 Naphthalene-d8	136	6.441	6.441	0.000	99	74465	2.00	2.00	
* 2 Acenaphthene-d10	164	8.050	8.050	0.000	95	41700	2.00	2.00	
* 3 Phenanthrene-d10	188	9.388	9.388	0.000	97	92360	2.00	2.00	
* 4 Chrysene-d12	240	11.875	11.875	0.000	98	127013	2.00	2.00	
* 5 Perylene-d12	264	13.667	13.667	0.000	99	146034	2.00	2.00	
\$ 6 o-Terphenyl	230	9.735	9.735	0.000	90	299585	10.0	10.3	
7 Naphthalene	128	6.462	6.462	0.000	98	351253	10.0	10.4	
9 2-Methylnaphthalene	142	7.109	7.109	0.000	83	255974	10.0	10.7	
10 1-Methylnaphthalene	142	7.200	7.200	0.000	92	223107	10.0	10.5	
11 1,1'-Biphenyl	154	7.542	7.542	0.000	99	302035	10.0	10.6	
12 Acenaphthylene	152	7.927	7.927	0.000	97	405878	10.0	10.7	
14 Acenaphthene	153	8.083	8.083	0.000	94	260425	10.0	10.4	
15 Dibenzofuran	168	8.238	8.238	0.000	98	347390	10.0	10.5	
16 Fluorene	166	8.548	8.548	0.000	95	306396	10.0	10.7	
17 Phenanthrene	178	9.409	9.409	0.000	97	465519	10.0	10.5	
18 Anthracene	178	9.457	9.457	0.000	99	398957	10.0	10.5	
19 Fluoranthene	202	10.484	10.484	0.000	98	562780	10.0	10.6	
20 Pyrene	202	10.687	10.687	0.000	98	591982	10.0	10.7	
21 Benzo[a]anthracene	228	11.859	11.859	0.000	97	628294	10.0	10.3	
22 Chrysene	228	11.907	11.907	0.000	99	602682	10.0	10.3	
23 Benzo[b]fluoranthene	252	13.169	13.169	0.000	97	739335	10.0	10.4	
24 Benzo[k]fluoranthene	252	13.207	13.207	0.000	97	724885	10.0	10.4	
25 Benzo[a]pyrene	252	13.608	13.608	0.000	98	691521	10.0	10.4	
26 Indeno[1,2,3-cd]pyrene	276	15.191	15.191	0.000	96	990122	10.0	10.6	
27 Dibenz(a,h)anthracene	278	15.212	15.212	0.000	96	869121	10.0	10.7	
28 Benzo[g,h,i]perylene	276	15.571	15.571	0.000	95	810489	10.0	10.5	

Report Date: 13-Aug-2015 09:19:49

Chrom Revision: 2.2 23-Jul-2015 08:26:08

**Reagents:**

SMLLPAH10LVI\_00026

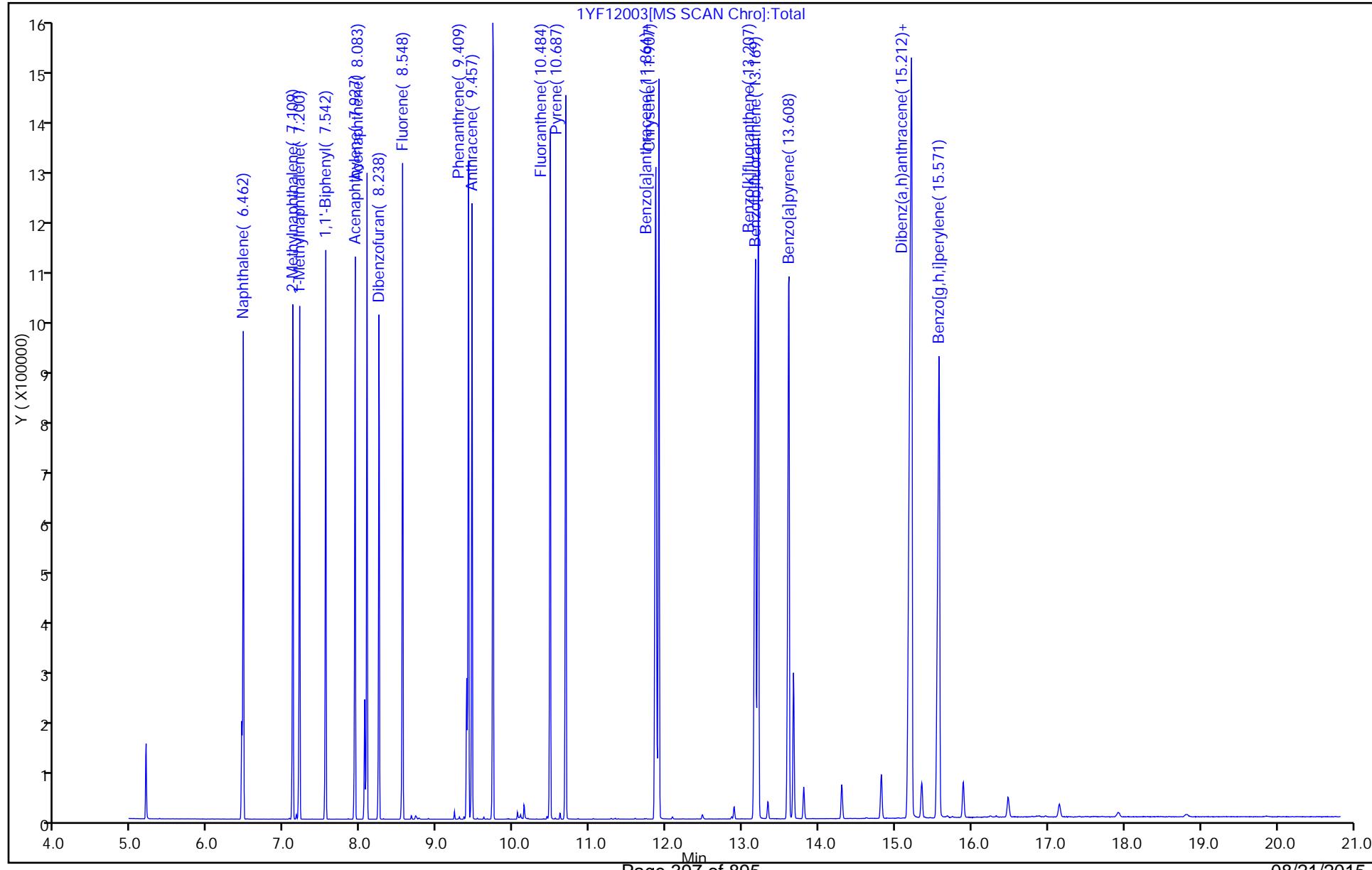
Amount Added: 1.00

Units: mL

Report Date: 13-Aug-2015 09:19:49

Chrom Revision: 2.2 23-Jul-2015 08:26:08

TestAmerica Savannah  
Data File: \\ChromNA\\Savannah\\ChromData\\CMSY\\20150812-22174.b\\1YF12003.D  
Injection Date: 12-Aug-2015 14:16:30 Instrument ID: CMSY  
Lims ID: IC Operator ID: LIMS import  
Client ID:  
Injection Vol: 2.0 ul Worklist Smp#: 3  
Method: 8270D\_LLPAH\_MSY Dil. Factor: 1.0000  
Column: Restek RXi-5Sil MS ( 0.25 mm) Limit Group: 8270D\_LL\_PAH



TestAmerica Savannah  
Target Compound Quantitation Report

Data File: \\ChromNA\Savannah\ChromData\CMSY\20150812-22174.b\1YF12004.D  
 Lims ID: ICIS  
 Client ID:  
 Sample Type: ICIS Calib Level: 5  
 Inject. Date: 12-Aug-2015 14:44:30 ALS Bottle#: 4 Worklist Smp#: 4  
 Injection Vol: 2.0 ul Dil. Factor: 1.0000  
 Sample Info: ICIS  
 Misc. Info.: 680-0022174-004  
 Operator ID: LIMS import Instrument ID: CMSY  
 Sublist: chrom-8270D\_LLPAH\_MSY\*sub5  
 Method: \\ChromNA\Savannah\ChromData\CMSY\20150812-22174.b\8270D\_LLPAH\_MSY.m  
 Limit Group: 8270D\_LL\_PAH  
 Last Update: 13-Aug-2015 09:19:50 Calib Date: 12-Aug-2015 16:37:30  
 Integrator: RTE ID Type: Deconvolution ID  
 Quant Method: Internal Standard Quant By: Initial Calibration  
 Last ICal File: \\ChromNA\Savannah\ChromData\CMSY\20150812-22174.b\1YF12008.D  
 Column 1 : Restek RXi-5Sil MS ( 0.25 mm) Det: MS SCAN  
 Process Host: XAWRK050

First Level Reviewer: millsj

Date:

13-Aug-2015 09:18:05

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
* 1 Naphthalene-d8	136	6.441	6.441	0.000	99	80039	2.00	2.00	
* 2 Acenaphthene-d10	164	8.050	8.050	0.000	96	44355	2.00	2.00	
* 3 Phenanthrene-d10	188	9.382	9.382	0.000	97	100749	2.00	2.00	
* 4 Chrysene-d12	240	11.869	11.869	0.000	98	141781	2.00	2.00	
* 5 Perylene-d12	264	13.667	13.667	0.000	99	164852	2.00	2.00	
\$ 6 o-Terphenyl	230	9.730	9.730	0.000	90	148132	5.00	4.57	
7 Naphthalene	128	6.462	6.462	0.000	98	177015	5.00	4.90	
9 2-Methylnaphthalene	142	7.109	7.109	0.000	82	125571	5.00	4.86	
10 1-Methylnaphthalene	142	7.195	7.195	0.000	91	111292	5.00	4.85	
11 1,1'-Biphenyl	154	7.537	7.537	0.000	99	148837	5.00	4.89	
12 Acenaphthylene	152	7.922	7.922	0.000	97	201239	5.00	4.96	
14 Acenaphthene	153	8.077	8.077	0.000	94	128764	5.00	4.86	
15 Dibenzofuran	168	8.238	8.238	0.000	99	174701	5.00	4.97	
16 Fluorene	166	8.548	8.548	0.000	95	155511	5.00	5.10	
17 Phenanthrene	178	9.409	9.409	0.000	97	231956	5.00	4.82	
18 Anthracene	178	9.452	9.452	0.000	99	199063	5.00	4.82	
19 Fluoranthene	202	10.479	10.479	0.000	99	282407	5.00	4.88	
20 Pyrene	202	10.682	10.682	0.000	98	292847	5.00	4.73	
21 Benzo[a]anthracene	228	11.853	11.853	0.000	96	320911	5.00	4.70	
22 Chrysene	228	11.896	11.896	0.000	99	304314	5.00	4.67	
23 Benzo[b]fluoranthene	252	13.158	13.158	0.000	97	376759	5.00	4.68	
24 Benzo[k]fluoranthene	252	13.196	13.196	0.000	97	382853	5.00	4.87	
25 Benzo[a]pyrene	252	13.597	13.597	0.000	98	361552	5.00	4.83	
26 Indeno[1,2,3-cd]pyrene	276	15.180	15.180	0.000	96	504502	5.00	4.84	
27 Dibenz(a,h)anthracene	278	15.196	15.196	0.000	96	436265	5.00	4.77	
28 Benzo[g,h,i]perylene	276	15.555	15.555	0.000	96	414951	5.00	4.76	

Report Date: 13-Aug-2015 09:19:50

Chrom Revision: 2.2 23-Jul-2015 08:26:08

**Reagents:**

SMLLPAH5.0LVI\_00029

Amount Added: 1.00

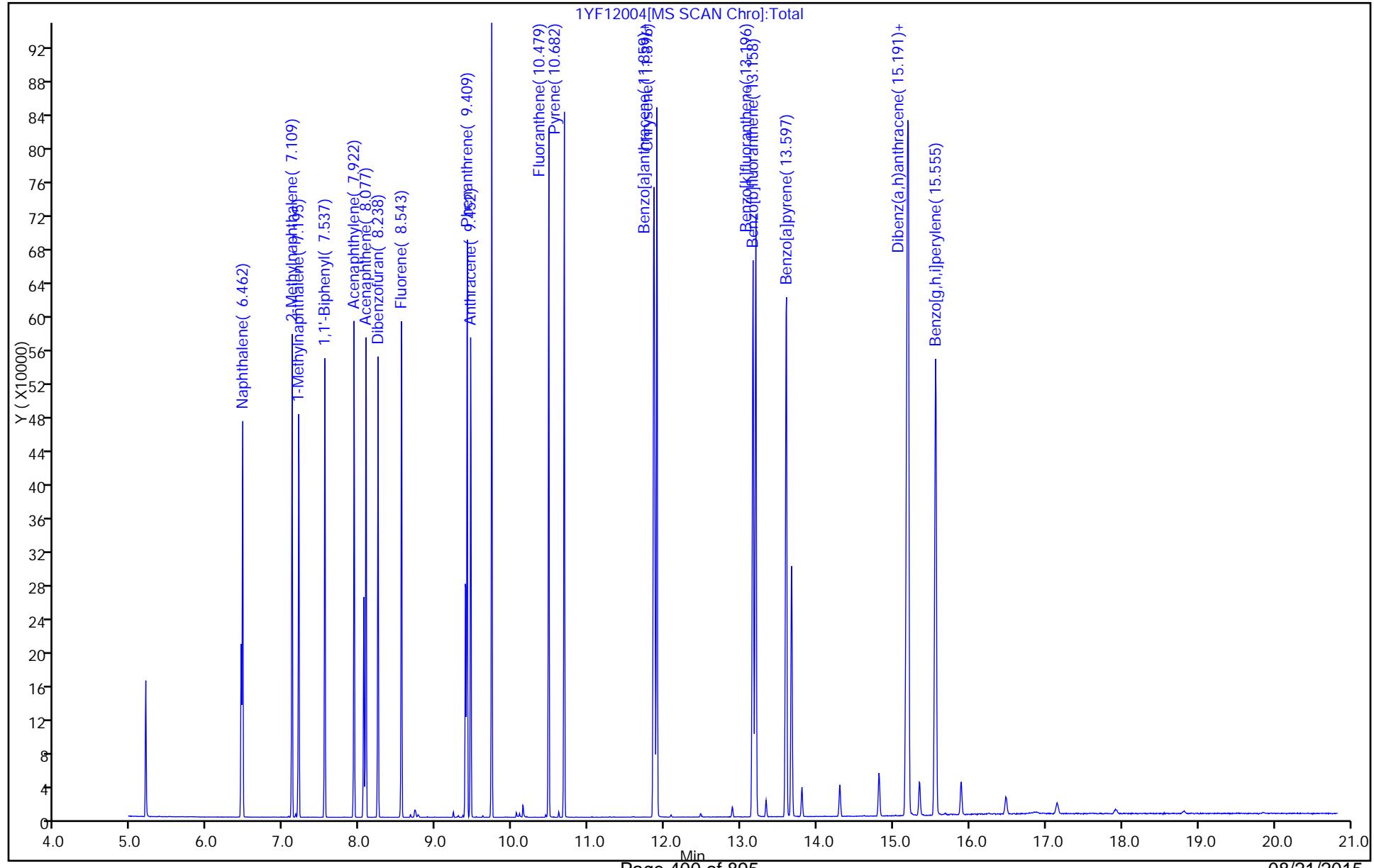
Units: mL

Report Date: 13-Aug-2015 09:19:50

Chrom Revision: 2.2 23-Jul-2015 08:26:08

## TestAmerica Savannah

Data File: \\ChromNA\\Savannah\\ChromData\CMSY\\20150812-22174.b\\1YF12004.D  
 Injection Date: 12-Aug-2015 14:44:30 Instrument ID: CMSY  
 Lims ID: ICIS Operator ID: LIMS import  
 Client ID:  
 Injection Vol: 2.0 ul Worklist Smp#: 4  
 Method: 8270D\_LLPAH\_MSY Dil. Factor: 1.0000  
 Column: Restek RXi-5Sil MS ( 0.25 mm) Limit Group: 8270D\_LL\_PAH



TestAmerica Savannah  
Target Compound Quantitation Report

Data File: \\ChromNA\Savannah\ChromData\CMSY\20150812-22174.b\1YF12005.D  
 Lims ID: IC  
 Client ID:  
 Sample Type: IC Calib Level: 4  
 Inject. Date: 12-Aug-2015 15:12:30 ALS Bottle#: 5 Worklist Smp#: 5  
 Injection Vol: 2.0 ul Dil. Factor: 1.0000  
 Sample Info: IC  
 Misc. Info.: 680-0022174-005  
 Operator ID: LIMS import Instrument ID: CMSY  
 Sublist: chrom-8270D\_LLPAH\_MSY\*sub5  
 Method: \\ChromNA\Savannah\ChromData\CMSY\20150812-22174.b\8270D\_LLPAH\_MSY.m  
 Limit Group: 8270D\_LL\_PAH  
 Last Update: 13-Aug-2015 09:19:51 Calib Date: 12-Aug-2015 16:37:30  
 Integrator: RTE ID Type: Deconvolution ID  
 Quant Method: Internal Standard Quant By: Initial Calibration  
 Last ICal File: \\ChromNA\Savannah\ChromData\CMSY\20150812-22174.b\1YF12008.D  
 Column 1 : Restek RXi-5Sil MS ( 0.25 mm) Det: MS SCAN  
 Process Host: XAWRK050

First Level Reviewer: millsj

Date:

13-Aug-2015 09:18:21

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
* 1 Naphthalene-d8	136	6.441	6.441	0.000	99	70894	2.00	2.00	
* 2 Acenaphthene-d10	164	8.050	8.050	0.000	96	39385	2.00	2.00	
* 3 Phenanthrene-d10	188	9.382	9.382	0.000	97	87049	2.00	2.00	
* 4 Chrysene-d12	240	11.864	11.869	-0.005	98	117466	2.00	2.00	
* 5 Perylene-d12	264	13.661	13.667	-0.006	99	136856	2.00	2.00	
\$ 6 o-Terphenyl	230	9.730	9.730	0.000	89	25042	1.00	0.9330	
7 Naphthalene	128	6.462	6.462	0.000	98	30589	1.00	0.9558	
9 2-Methylnaphthalene	142	7.109	7.109	0.000	83	22143	1.00	0.9681	
10 1-Methylnaphthalene	142	7.195	7.195	0.000	90	19127	1.00	0.9419	
11 1,1'-Biphenyl	154	7.537	7.537	0.000	98	25222	1.00	0.9338	
12 Acenaphthylene	152	7.922	7.922	0.000	97	34722	1.00	0.9647	
14 Acenaphthene	153	8.077	8.077	0.000	94	22277	1.00	0.9461	
15 Dibenzofuran	168	8.238	8.238	0.000	99	30039	1.00	0.9615	
16 Fluorene	166	8.543	8.548	-0.005	95	26399	1.00	0.9748	
17 Phenanthrene	178	9.404	9.409	-0.005	97	39585	1.00	0.9515	
18 Anthracene	178	9.452	9.452	0.000	99	34011	1.00	0.9522	
19 Fluoranthene	202	10.473	10.479	-0.006	98	48363	1.00	0.9676	
20 Pyrene	202	10.677	10.682	-0.005	98	51055	1.00	0.99	
21 Benzo[a]anthracene	228	11.848	11.853	-0.005	97	56140	1.00	0.99	
22 Chrysene	228	11.891	11.896	-0.005	99	52660	1.00	0.9745	
23 Benzo[b]fluoranthene	252	13.148	13.158	-0.010	96	66824	1.00	1.00	
24 Benzo[k]fluoranthene	252	13.185	13.196	-0.011	97	63306	1.00	0.9697	
25 Benzo[a]pyrene	252	13.586	13.597	-0.011	98	61691	1.00	0.99	
26 Indeno[1,2,3-cd]pyrene	276	15.164	15.180	-0.016	96	86239	1.00	1.00	
27 Dibenz(a,h)anthracene	278	15.180	15.196	-0.016	96	73594	1.00	0.9697	
28 Benzo[g,h,i]perylene	276	15.539	15.555	-0.016	95	70813	1.00	0.9788	

Report Date: 13-Aug-2015 09:19:51

Chrom Revision: 2.2 23-Jul-2015 08:26:08

**Reagents:**

SMLLPAH1.0LVI\_00025

Amount Added: 1.00

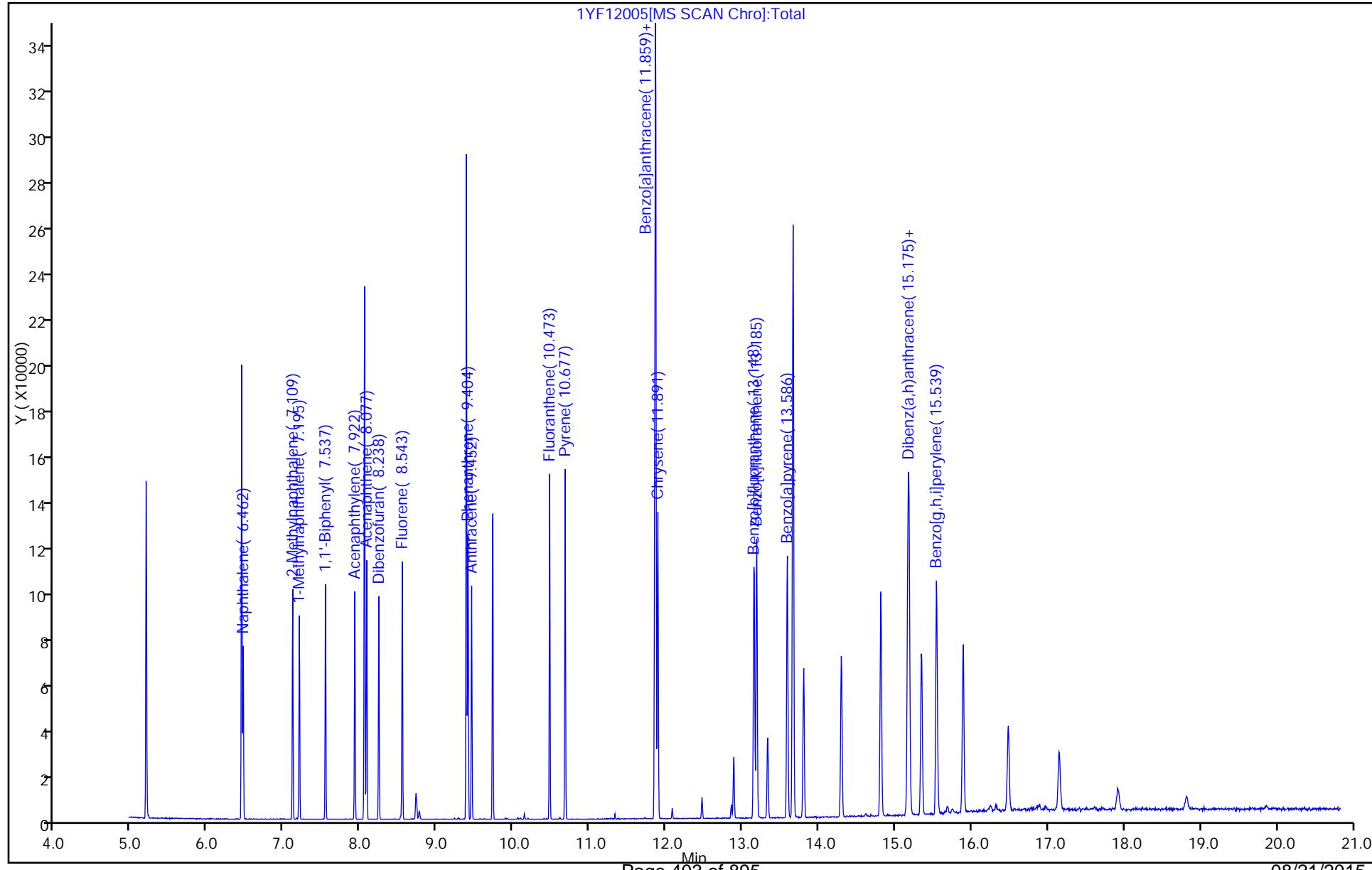
Units: mL

Report Date: 13-Aug-2015 09:19:51

Chrom Revision: 2.2 23-Jul-2015 08:26:08

## TestAmerica Savannah

Data File: \\ChromNA\\Savannah\\ChromData\\CMSY\\20150812-22174.b\\1YF12005.D  
 Injection Date: 12-Aug-2015 15:12:30 Instrument ID: CMSY  
 Lims ID: IC Operator ID: LIMS import  
 Client ID:  
 Injection Vol: 2.0 ul Worklist Smp#: 5  
 Method: 8270D\_LLPAH\_MSY Dil. Factor: 1.0000  
 Column: Restek RXi-5Sil MS ( 0.25 mm) Limit Group: 8270D\_LL\_PAH



TestAmerica Savannah  
Target Compound Quantitation Report

Data File: \\ChromNA\Savannah\ChromData\CMSY\20150812-22174.b\1YF12006.D  
 Lims ID: IC  
 Client ID:  
 Sample Type: IC Calib Level: 3  
 Inject. Date: 12-Aug-2015 15:40:30 ALS Bottle#: 6 Worklist Smp#: 6  
 Injection Vol: 2.0 ul Dil. Factor: 1.0000  
 Sample Info: IC  
 Misc. Info.: 680-0022174-006  
 Operator ID: LIMS import Instrument ID: CMSY  
 Sublist: chrom-8270D\_LLPAH\_MSY\*sub5  
 Method: \\ChromNA\Savannah\ChromData\CMSY\20150812-22174.b\8270D\_LLPAH\_MSY.m  
 Limit Group: 8270D\_LL\_PAH  
 Last Update: 13-Aug-2015 09:19:52 Calib Date: 12-Aug-2015 16:37:30  
 Integrator: RTE ID Type: Deconvolution ID  
 Quant Method: Internal Standard Quant By: Initial Calibration  
 Last ICal File: \\ChromNA\Savannah\ChromData\CMSY\20150812-22174.b\1YF12008.D  
 Column 1 : Restek RXi-5Sil MS ( 0.25 mm) Det: MS SCAN  
 Process Host: XAWRK050

First Level Reviewer: millsj

Date:

13-Aug-2015 09:18:33

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
* 1 Naphthalene-d8	136	6.440	6.441	-0.001	99	68874	2.00	2.00	
* 2 Acenaphthene-d10	164	8.050	8.050	0.000	94	38257	2.00	2.00	
* 3 Phenanthrene-d10	188	9.382	9.382	0.000	98	83212	2.00	2.00	
* 4 Chrysene-d12	240	11.859	11.869	-0.011	98	117407	2.00	2.00	
* 5 Perylene-d12	264	13.661	13.667	-0.006	99	133861	2.00	2.00	
\$ 6 o-Terphenyl	230	9.724	9.730	-0.006	90	12598	0.5000	0.4696	
7 Naphthalene	128	6.456	6.462	-0.006	98	15633	0.5000	0.5028	
9 2-Methylnaphthalene	142	7.109	7.109	0.000	83	10710	0.5000	0.4820	
10 1-Methylnaphthalene	142	7.194	7.195	-0.001	91	9661	0.5000	0.4897	
11 1,1'-Biphenyl	154	7.537	7.537	0.000	98	12952	0.5000	0.4937	
12 Acenaphthylene	152	7.922	7.922	0.000	97	17128	0.5000	0.4899	
14 Acenaphthene	153	8.077	8.077	0.000	95	11187	0.5000	0.4891	
15 Dibenzofuran	168	8.237	8.238	-0.001	99	14994	0.5000	0.4941	
16 Fluorene	166	8.542	8.548	-0.006	94	12393	0.5000	0.4711	
17 Phenanthrene	178	9.403	9.409	-0.006	96	19528	0.5000	0.4910	
18 Anthracene	178	9.452	9.452	0.000	99	16715	0.5000	0.4895	
19 Fluoranthene	202	10.473	10.479	-0.006	98	23140	0.5000	0.4843	
20 Pyrene	202	10.676	10.682	-0.006	99	25241	0.5000	0.4919	
21 Benzo[a]anthracene	228	11.848	11.853	-0.005	96	28374	0.5000	0.5022	
22 Chrysene	228	11.891	11.896	-0.005	99	27071	0.5000	0.5012	
23 Benzo[b]fluoranthene	252	13.148	13.158	-0.010	97	33398	0.5000	0.5104	
24 Benzo[k]fluoranthene	252	13.185	13.196	-0.011	96	31524	0.5000	0.4937	
25 Benzo[a]pyrene	252	13.586	13.597	-0.011	98	30702	0.5000	0.5047	
26 Indeno[1,2,3-cd]pyrene	276	15.164	15.180	-0.016	96	41246	0.5000	0.4778	
27 Dibenz(a,h)anthracene	278	15.180	15.196	-0.016	95	35945	0.5000	0.4842	
28 Benzo[g,h,i]perylene	276	15.538	15.555	-0.017	96	34917	0.5000	0.4934	

Report Date: 13-Aug-2015 09:19:52

Chrom Revision: 2.2 23-Jul-2015 08:26:08

**Reagents:**

SMLLPAH0.5LVI\_00026

Amount Added: 1.00

Units: mL

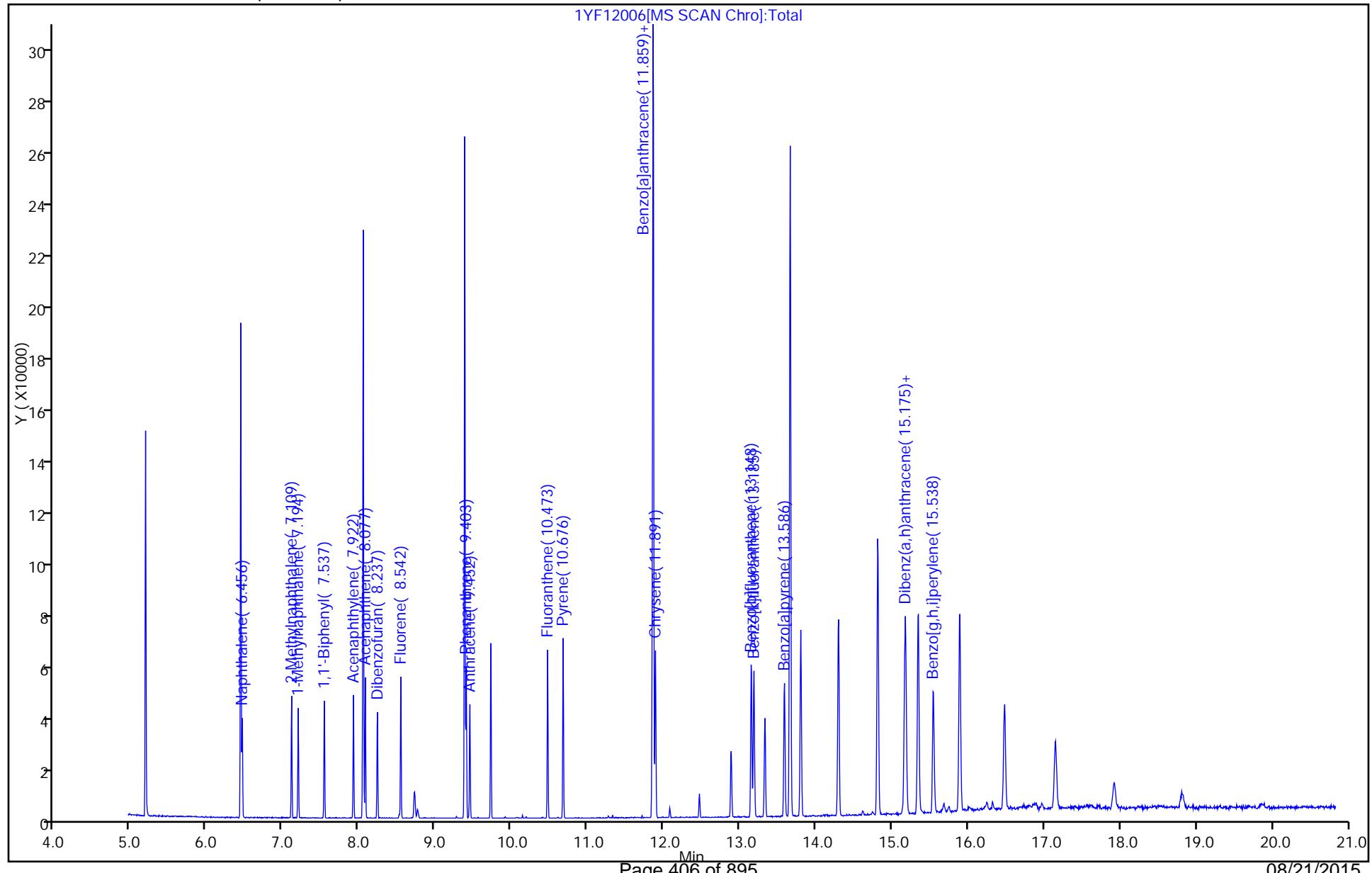
Report Date: 13-Aug-2015 09:19:52

Chrom Revision: 2.2 23-Jul-2015 08:26:08

## TestAmerica Savannah

Data File: \\ChromNA\\Savannah\\ChromData\\CMSY\\20150812-22174.b\\1YF12006.D  
Injection Date: 12-Aug-2015 15:40:30 Instrument ID: CMSY  
Lims ID: IC Operator ID: LIMS import  
Client ID:  
Injection Vol: 2.0 ul Dil. Factor: 1.0000 ALS Bottle#: 6  
Method: 8270D\_LLPAH\_MSY Limit Group: 8270D\_LL\_PAH  
Column: Restek RXi-5Sil MS ( 0.25 mm)

Worklist Smp#: 6



TestAmerica Savannah  
Target Compound Quantitation Report

Data File: \\ChromNA\Savannah\ChromData\CMSY\20150812-22174.b\1YF12007.D  
 Lims ID: IC  
 Client ID:  
 Sample Type: IC Calib Level: 2  
 Inject. Date: 12-Aug-2015 16:09:30 ALS Bottle#: 7 Worklist Smp#: 7  
 Injection Vol: 2.0 ul Dil. Factor: 1.0000  
 Sample Info: IC  
 Misc. Info.: 680-0022174-007  
 Operator ID: LIMS import Instrument ID: CMSY  
 Sublist: chrom-8270D\_LLPAH\_MSY\*sub5  
 Method: \\ChromNA\Savannah\ChromData\CMSY\20150812-22174.b\8270D\_LLPAH\_MSY.m  
 Limit Group: 8270D\_LL\_PAH  
 Last Update: 13-Aug-2015 09:19:53 Calib Date: 12-Aug-2015 16:37:30  
 Integrator: RTE ID Type: Deconvolution ID  
 Quant Method: Internal Standard Quant By: Initial Calibration  
 Last ICal File: \\ChromNA\Savannah\ChromData\CMSY\20150812-22174.b\1YF12008.D  
 Column 1 : Restek RXi-5Sil MS ( 0.25 mm) Det: MS SCAN  
 Process Host: XAWRK050

First Level Reviewer: millsj

Date:

13-Aug-2015 09:18:52

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
* 1 Naphthalene-d8	136	6.440	6.441	-0.001	99	71300	2.00	2.00	
* 2 Acenaphthene-d10	164	8.050	8.050	0.000	97	39562	2.00	2.00	
* 3 Phenanthrene-d10	188	9.382	9.382	0.000	97	88689	2.00	2.00	
* 4 Chrysene-d12	240	11.859	11.869	-0.010	98	115342	2.00	2.00	
* 5 Perylene-d12	264	13.661	13.667	-0.006	99	136302	2.00	2.00	
\$ 6 o-Terphenyl	230	9.730	9.730	0.000	88	6154	0.2000	0.2335	
7 Naphthalene	128	6.462	6.462	0.000	99	6281	0.2000	0.1952	
9 2-Methylnaphthalene	142	7.109	7.109	0.000	83	4319	0.2000	0.1878	
10 1-Methylnaphthalene	142	7.195	7.195	0.000	95	4098	0.2000	0.2007	
11 1,1'-Biphenyl	154	7.537	7.537	0.000	98	5436	0.2000	0.2004	
12 Acenaphthylene	152	7.922	7.922	0.000	98	7248	0.2000	0.2005	
14 Acenaphthene	153	8.077	8.077	0.000	94	4795	0.2000	0.2027	
15 Dibenzofuran	168	8.238	8.238	0.000	98	6172	0.2000	0.1967	
16 Fluorene	166	8.542	8.548	-0.006	94	5331	0.2000	0.1960	
17 Phenanthrene	178	9.404	9.409	-0.005	96	8456	0.2000	0.1995	
18 Anthracene	178	9.452	9.452	0.000	77	6924	0.2000	0.1903	
19 Fluoranthene	202	10.473	10.479	-0.006	98	9711	0.2000	0.1907	
20 Pyrene	202	10.676	10.682	-0.006	98	9812	0.2000	0.1946	
21 Benzo[a]anthracene	228	11.848	11.853	-0.005	96	10876	0.2000	0.1959	
22 Chrysene	228	11.891	11.896	-0.005	99	10841	0.2000	0.2043	
23 Benzo[b]fluoranthene	252	13.148	13.158	-0.010	96	13078	0.2000	0.1963	
24 Benzo[k]fluoranthene	252	13.185	13.196	-0.011	96	12711	0.2000	0.1955	
25 Benzo[a]pyrene	252	13.586	13.597	-0.011	97	12020	0.2000	0.1940	
26 Indeno[1,2,3-cd]pyrene	276	15.169	15.180	-0.011	96	16733	0.2000	0.1973	
27 Dibenz(a,h)anthracene	278	15.180	15.196	-0.016	96	14678	0.2000	0.1942	
28 Benzo[g,h,i]perylene	276	15.544	15.555	-0.011	96	14082	0.2000	0.1954	

Report Date: 13-Aug-2015 09:19:53

Chrom Revision: 2.2 23-Jul-2015 08:26:08

**Reagents:**

SMLLPAH0.2LVI\_00026

Amount Added: 1.00

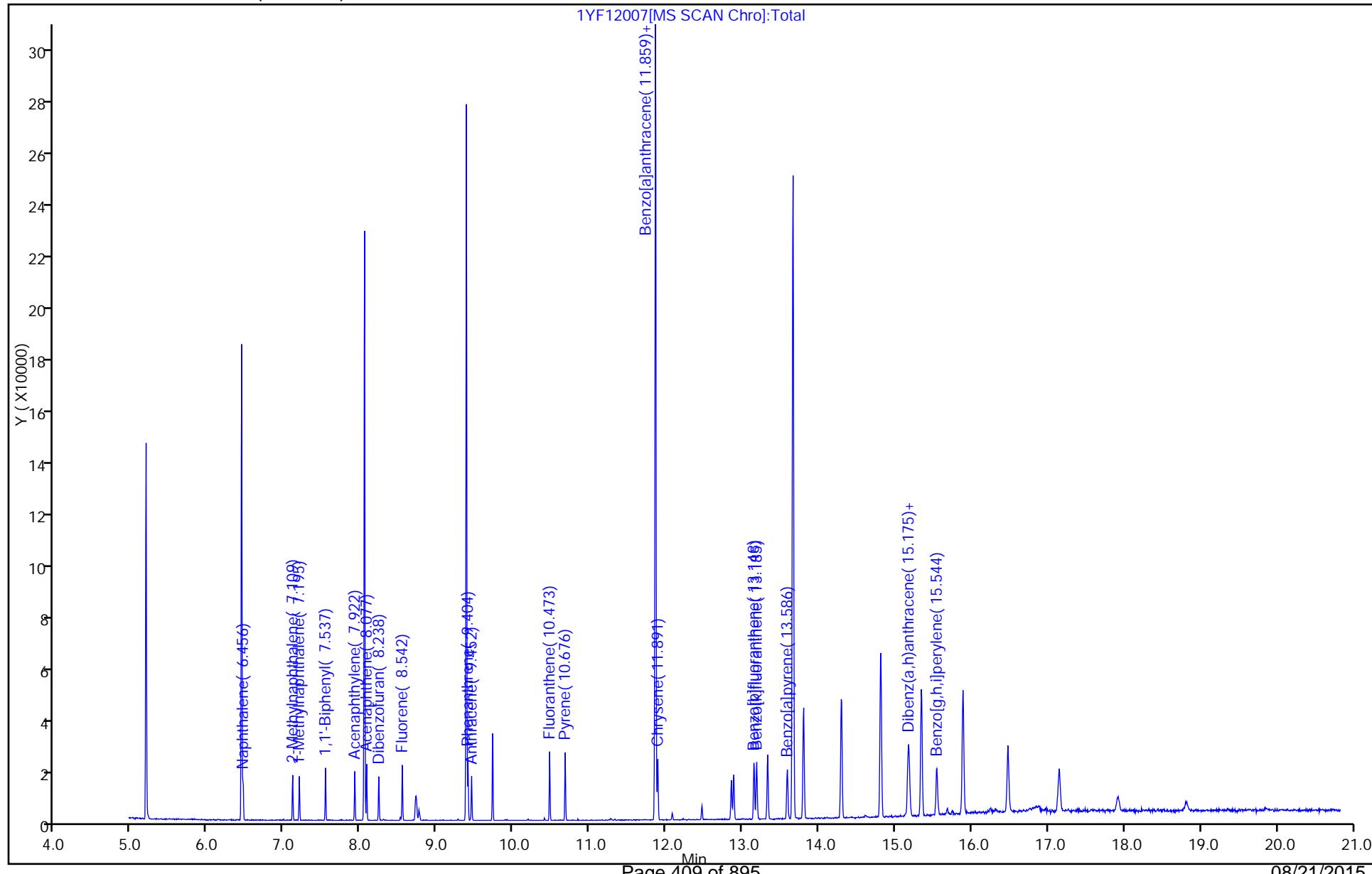
Units: mL

Report Date: 13-Aug-2015 09:19:53

Chrom Revision: 2.2 23-Jul-2015 08:26:08

## TestAmerica Savannah

Data File: \\ChromNA\\Savannah\\ChromData\\CMSY\\20150812-22174.b\\1YF12007.D  
Injection Date: 12-Aug-2015 16:09:30 Instrument ID: CMSY  
Lims ID: IC Operator ID: LIMS import  
Client ID:  
Injection Vol: 2.0 ul Dil. Factor: 1.0000 Worklist Smp#: 7  
Method: 8270D\_LLPAH\_MSY Limit Group: 8270D\_LL\_PAH  
Column: Restek RXi-5Sil MS ( 0.25 mm)



TestAmerica Savannah  
Target Compound Quantitation Report

Data File: \\ChromNA\Savannah\ChromData\CMSY\20150812-22174.b\1YF12008.D  
 Lims ID: IC  
 Client ID:  
 Sample Type: IC Calib Level: 1  
 Inject. Date: 12-Aug-2015 16:37:30 ALS Bottle#: 8 Worklist Smp#: 8  
 Injection Vol: 2.0 ul Dil. Factor: 1.0000  
 Sample Info: IC  
 Misc. Info.: 680-0022174-008  
 Operator ID: LIMS import Instrument ID: CMSY  
 Sublist: chrom-8270D\_LLPAH\_MSY\*sub5  
 Method: \\ChromNA\Savannah\ChromData\CMSY\20150812-22174.b\8270D\_LLPAH\_MSY.m  
 Limit Group: 8270D\_LL\_PAH  
 Last Update: 13-Aug-2015 09:19:54 Calib Date: 12-Aug-2015 16:37:30  
 Integrator: RTE ID Type: Deconvolution ID  
 Quant Method: Internal Standard Quant By: Initial Calibration  
 Last ICal File: \\ChromNA\Savannah\ChromData\CMSY\20150812-22174.b\1YF12008.D  
 Column 1 : Restek RXi-5Sil MS ( 0.25 mm) Det: MS SCAN  
 Process Host: XAWRK050

First Level Reviewer: millsj

Date:

13-Aug-2015 09:08:42

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
* 1 Naphthalene-d8	136	6.440	6.441	-0.001	99	67847	2.00	2.00	
* 2 Acenaphthene-d10	164	8.050	8.050	0.000	95	38710	2.00	2.00	
* 3 Phenanthrene-d10	188	9.382	9.382	0.000	97	82582	2.00	2.00	
* 4 Chrysene-d12	240	11.864	11.869	-0.005	98	112485	2.00	2.00	
* 5 Perylene-d12	264	13.661	13.667	-0.006	99	133040	2.00	2.00	
\$ 6 o-Terphenyl	230	9.730	9.730	0.000	92	2478	0.1000	0.0964	
7 Naphthalene	128	6.462	6.462	0.000	40	2877	0.1000	0.0939	
9 2-Methylnaphthalene	142	7.109	7.109	0.000	84	2137	0.1000	0.0976	
10 1-Methylnaphthalene	142	7.195	7.195	0.000	92	1906	0.1000	0.0981	M
11 1,1'-Biphenyl	154	7.537	7.537	0.000	100	2511	0.1000	0.0946	
12 Acenaphthylene	152	7.922	7.922	0.000	97	3188	0.1000	0.0901	
14 Acenaphthene	153	8.077	8.077	0.000	92	2187	0.1000	0.0945	
15 Dibenzofuran	168	8.238	8.238	0.000	97	2827	0.1000	0.0921	
16 Fluorene	166	8.542	8.548	-0.006	93	2331	0.1000	0.0876	
17 Phenanthrene	178	9.404	9.409	-0.005	96	3748	0.1000	0.0950	
18 Anthracene	178	9.452	9.452	0.000	58	3328	0.1000	0.0982	
19 Fluoranthene	202	10.473	10.479	-0.006	98	4537	0.1000	0.0957	
20 Pyrene	202	10.677	10.682	-0.005	98	4751	0.1000	0.0966	
21 Benzo[a]anthracene	228	11.848	11.853	-0.005	95	5535	0.1000	0.1022	
22 Chrysene	228	11.891	11.896	-0.005	97	5137	0.1000	0.0993	
23 Benzo[b]fluoranthene	252	13.153	13.158	-0.005	96	6219	0.1000	0.0956	
24 Benzo[k]fluoranthene	252	13.185	13.196	-0.011	96	6013	0.1000	0.0947	
25 Benzo[a]pyrene	252	13.586	13.597	-0.011	98	5677	0.1000	0.0939	
26 Indeno[1,2,3-cd]pyrene	276	15.169	15.180	-0.011	96	7973	0.1000	0.0964	
27 Dibenz(a,h)anthracene	278	15.185	15.196	-0.011	95	6867	0.1000	0.0931	
28 Benzo[g,h,i]perylene	276	15.549	15.555	-0.006	95	6860	0.1000	0.0975	

**QC Flag Legend**

Review Flags

M - Manually Integrated

**Reagents:**

SMLLPAH0.1LVI\_00027

Amount Added: 1.00

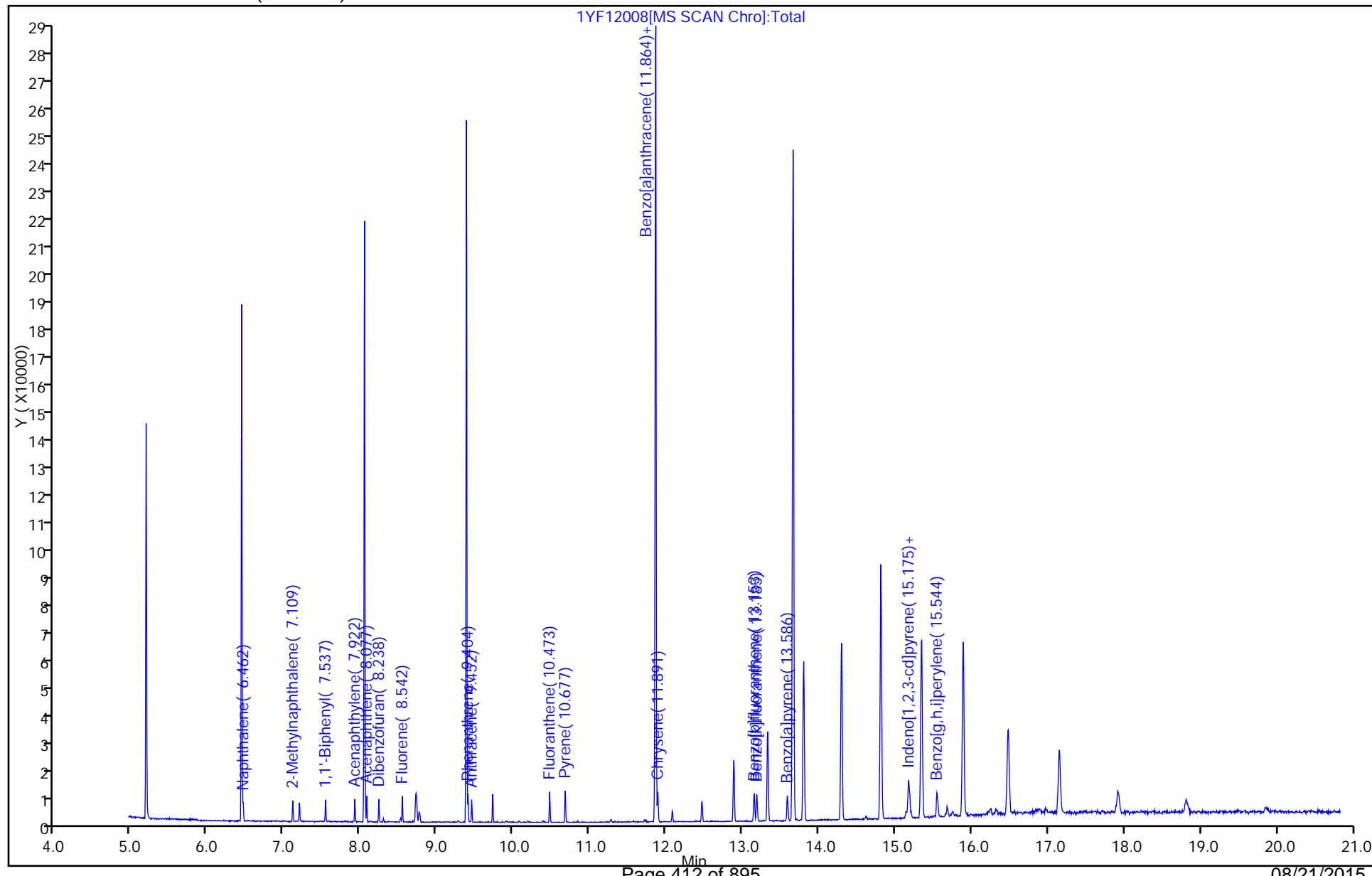
Units: mL

Report Date: 13-Aug-2015 09:19:54

Chrom Revision: 2.2 23-Jul-2015 08:26:08

## TestAmerica Savannah

Data File: \\ChromNA\\Savannah\\ChromData\\CMSY\\20150812-22174.b\\1YF12008.D  
Injection Date: 12-Aug-2015 16:37:30 Instrument ID: CMSY  
Lims ID: IC Operator ID: LIMS import  
Client ID:  
Injection Vol: 2.0 ul Dil. Factor: 1.0000 Worklist Smp#: 8  
Method: 8270D\_LLPAH\_MSY Limit Group: 8270D\_LL\_PAH  
Column: Restek RXi-5Sil MS ( 0.25 mm)



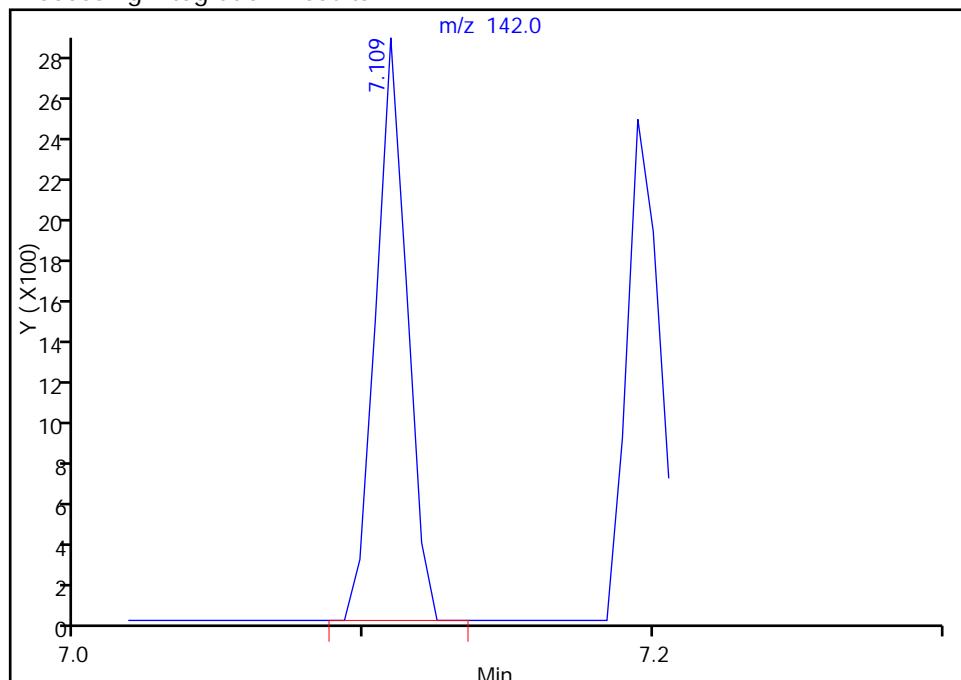
## TestAmerica Savannah

Data File: \\ChromNA\\Savannah\\ChromData\\CMSY\\20150812-22174.b\\1YF12008.D  
 Injection Date: 12-Aug-2015 16:37:30 Instrument ID: CMSY  
 Lims ID: IC  
 Client ID:  
 Operator ID: LIMS import ALS Bottle#: 8 Worklist Smp#: 8  
 Injection Vol: 2.0 ul Dil. Factor: 1.0000  
 Method: 8270D\_LLPAH\_MSY Limit Group: 8270D\_LL\_PAH  
 Column: Restek RXi-5Sil MS ( 0.25 mm) Detector: MS SCAN

## 10 1-Methylnaphthalene, CAS: 90-12-0

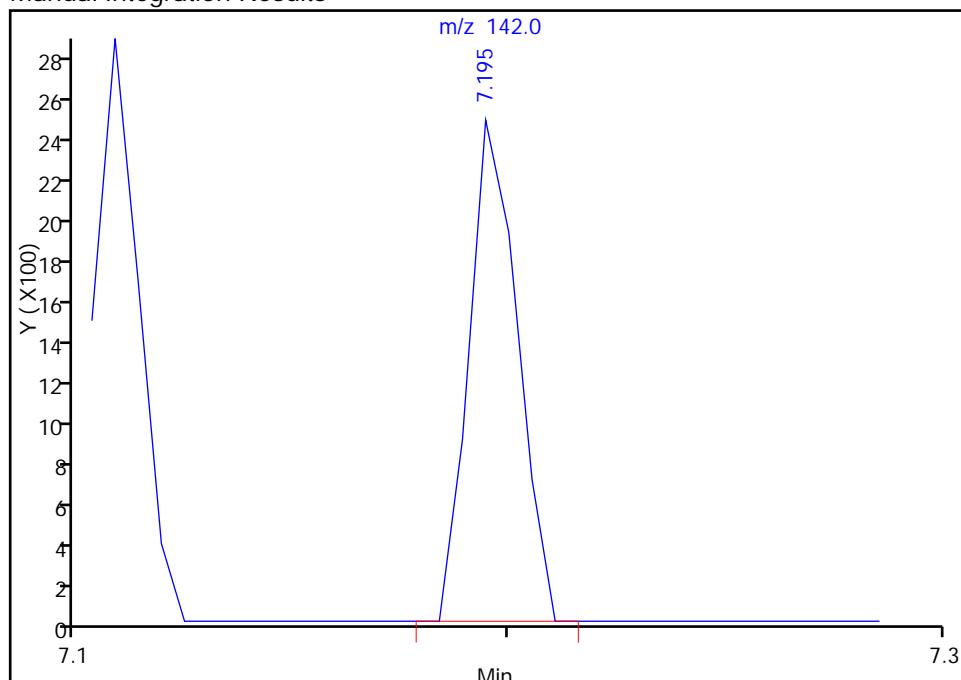
RT: 7.11  
 Area: 2137  
 Amount: 0.108128  
 Amount Units: ug/ml

## Processing Integration Results



RT: 7.19  
 Area: 1906  
 Amount: 0.098077  
 Amount Units: ug/ml

## Manual Integration Results



Reviewer: millsj, 13-Aug-2015 09:08:42

Audit Action: Manually Integrated

Audit Reason: Assign Peak

FORM VII  
GC/MS SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Savannah

Job No.: 680-115692-1

SDG No.: 680-115692-01

Lab Sample ID: ICV 680-396042/9

Calibration Date: 08/13/2015 21:39

Instrument ID: CMSD

Calib Start Date: 08/13/2015 18:16

GC Column: RXi- 5Sil MS ID: 0.25 (mm)

Calib End Date: 08/13/2015 21:10

Lab File ID: 1DF13009.D

Conc. Units: ug/mL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Naphthalene	Ave	0.9077	1.002	0.7000	5.52	5.00	10.4	30.0
2-Methylnaphthalene	Ave	0.6031	0.6410	0.4000	5.31	5.00	6.3	30.0
1-Methylnaphthalene	Ave	0.5251	0.5894		5.61	5.00	12.3	30.0
1,1'-Biphenyl	Ave	1.234	1.720		6.97	5.00	39.4*	30.0
Acenaphthylene	Ave	1.789	2.290	0.9000	6.40	5.00	28.0	30.0
Acenaphthene	Ave	1.198	1.367	0.9000	5.71	5.00	14.2	30.0
Dibenzofuran	Ave	1.533	1.987		6.48	5.00	29.6	30.0
Fluorene	Ave	1.280	1.502	0.9000	5.87	5.00	17.4	30.0
Phenanthrene	Ave	1.005	1.060	0.7000	5.27	5.00	5.5	30.0
Anthracene	QuaF		0.8484	0.7000	5.25	5.00	5.1	30.0
Fluoranthene	QuaF		1.210	0.6000	5.38	5.00	7.6	30.0
Pyrene	Ave	1.007	1.166	0.6000	5.79	5.00	15.8	30.0
Benzo[a]anthracene	Ave	0.9278	1.054	0.7000	5.68	5.00	13.6	30.0
Chrysene	Ave	0.9515	1.082	0.7000	5.68	5.00	13.7	30.0
Benzo[b]fluoranthene	QuaF		1.598	0.4000	6.19	5.00	23.8	30.0
Benzo[k]fluoranthene	QuaF		1.240	0.4000	5.07	5.00	1.4	30.0
Benzo[a]pyrene	QuaF		1.066	0.4000	5.31	5.00	6.2	30.0
Indeno[1,2,3-cd]pyrene	Ave	0.8617	1.004	0.2000	5.82	5.00	16.5	30.0
Dibenz(a,h)anthracene	QuaF		1.026	0.2000	5.87	5.00	17.4	30.0
Benzo[g,h,i]perylene	QuaF		1.143	0.2000	5.94	5.00	18.8	30.0
o-Terphenyl	Ave	0.4125	0.4323		5.24	5.00	4.8	30.0

TestAmerica Savannah  
Target Compound Quantitation Report

Data File: \\ChromNA\Savannah\ChromData\CMSD\20150813-22241.b\1DF13009.D  
 Lims ID: ICV  
 Client ID:  
 Sample Type: ICV  
 Inject. Date: 13-Aug-2015 21:39:30 ALS Bottle#: 9 Worklist Smp#: 9  
 Injection Vol: 2.0 ul Dil. Factor: 1.0000  
 Sample Info: ICV  
 Misc. Info.: 680-0022241-009  
 Operator ID: LIMS import Instrument ID: CMSD  
 Sublist:  
 Method: \\ChromNA\Savannah\ChromData\CMSD\20150813-22241.b\8270\_New\_LLPAH\_CMSD.m  
 Limit Group: 8270D\_LL\_PAH  
 Last Update: 14-Aug-2015 09:49:18 Calib Date: 13-Aug-2015 21:10:30  
 Integrator: RTE ID Type: Deconvolution ID  
 Quant Method: Internal Standard Quant By: Initial Calibration  
 Last ICal File: \\ChromNA\Savannah\ChromData\CMSD\20150813-22241.b\1DF13008.D  
 Column 1 : Restek RXi-5Sil MS ( 0.25 mm) Det: MS SCAN  
 Process Host: XAWRK008

First Level Reviewer: moorer

Date:

14-Aug-2015 09:40:24

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
* 1 Naphthalene-d8	136	5.890	5.895	-0.005	99	559862	2.00	2.00	
* 2 Acenaphthene-d10	164	7.311	7.316	-0.005	94	258097	2.00	2.00	
* 3 Phenanthrene-d10	188	8.497	8.496	0.001	98	599549	2.00	2.00	
* 4 Chrysene-d12	240	10.617	10.633	-0.016	98	667958	2.00	2.00	
* 5 Perylene-d12	264	11.830	11.861	-0.031	98	540744	2.00	2.00	
\$ 6 o-Terphenyl	230	8.807	8.811	-0.005	87	721911	5.00	5.24	
7 Naphthalene	128	5.906	5.911	-0.005	98	1401954	5.00	5.52	
8 2-Methylnaphthalene	142	6.472	6.477	-0.005	82	897140	5.00	5.31	
9 1-Methylnaphthalene	142	6.553	6.557	-0.004	91	824967	5.00	5.61	
10 1,1'-Biphenyl	154	6.868	6.867	0.001	98	1109860	5.00	6.97	
11 Acenaphthylene	152	7.210	7.209	0.001	96	1477425	5.00	6.40	
12 Acenaphthene	153	7.338	7.337	0.001	95	882162	5.00	5.71	
13 Dibenzofuran	168	7.482	7.487	-0.005	97	1282377	5.00	6.48	
14 Fluorene	166	7.749	7.748	0.001	81	969165	5.00	5.87	
15 Phenanthrene	178	8.513	8.512	0.001	97	1588813	5.00	5.27	
16 Anthracene	178	8.550	8.550	0.000	98	1271573	5.00	5.25	
17 Fluoranthene	202	9.453	9.452	0.001	98	1813362	5.00	5.38	
18 Pyrene	202	9.634	9.639	-0.005	98	1946282	5.00	5.79	
19 Benzo[a]anthracene	228	10.601	10.617	-0.016	97	1759425	5.00	5.68	
20 Chrysene	228	10.638	10.654	-0.016	95	1806212	5.00	5.68	
21 Benzo[b]fluoranthene	252	11.482	11.514	-0.032	97	2160713	5.00	6.19	
22 Benzo[k]fluoranthene	252	11.504	11.535	-0.031	98	1675881	5.00	5.07	
23 Benzo[a]pyrene	252	11.771	11.802	-0.031	97	1440473	5.00	5.31	
24 Indeno[1,2,3-cd]pyrene	276	12.834	12.860	-0.026	82	1675988	5.00	5.82	
25 Dibenz(a,h)anthracene	278	12.839	12.865	-0.026	97	1386677	5.00	5.87	
26 Benzo[g,h,i]perylene	276	13.117	13.143	-0.026	97	1545391	5.00	5.94	

Report Date: 14-Aug-2015 09:49:22

Chrom Revision: 2.2 23-Jul-2015 08:26:08

**Reagents:**

SMLLPAHICVLVI\_00036

Amount Added: 1.00

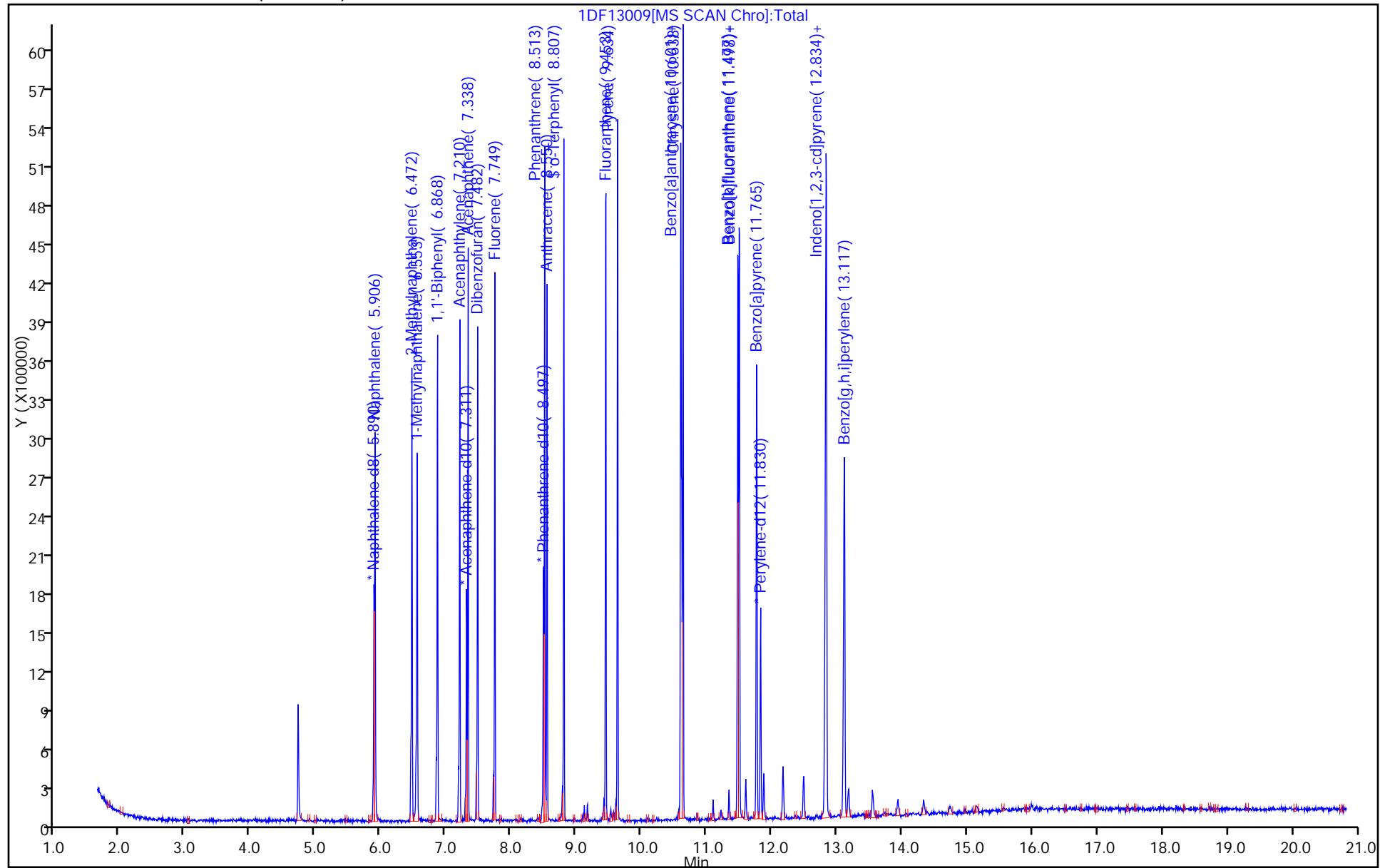
Units: mL

Report Date: 14-Aug-2015 09:49:22

Chrom Revision: 2.2 23-Jul-2015 08:26:08

## TestAmerica Savannah

Data File: \\ChromNA\\Savannah\\ChromData\\CMSD\\20150813-22241.b\\1DF13009.D  
Injection Date: 13-Aug-2015 21:39:30 Instrument ID: CMSD  
Lims ID: ICV Operator ID: LIMS import  
Client ID:  
Injection Vol: 2.0 ul Dil. Factor: 1.0000 Worklist Smp#: 9  
Method: 8270\_New\_LLPAH\_CMSD Limit Group: 8270D\_LL\_PAH  
Column: Restek RXi-5Sil MS ( 0.25 mm)



FORM VII  
GC/MS SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Savannah

Job No.: 680-115692-1

SDG No.: 680-115692-01

Lab Sample ID: CCVIS 680-396705/2

Calibration Date: 08/18/2015 13:17

Instrument ID: CMSD

Calib Start Date: 08/13/2015 18:16

GC Column: RXi- 5Sil MS ID: 0.25 (mm)

Calib End Date: 08/13/2015 21:10

Lab File ID: 1DF18002.D

Conc. Units: ug/mL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Naphthalene	Ave	0.9077	0.7434	0.7000	4.10	5.00	-18.1	20.0
2-Methylnaphthalene	Ave	0.6031	0.5296	0.4000	4.39	5.00	-12.2	20.0
1-Methylnaphthalene	Ave	0.5251	0.4660		4.44	5.00	-11.2	20.0
Acenaphthylene	Ave	1.789	1.512	0.9000	4.23	5.00	-15.5	20.0
Acenaphthene	Ave	1.198	0.9424	0.9000	3.93	5.00	-21.3*	20.0
Fluorene	Ave	1.280	1.124	0.9000	4.39	5.00	-12.2	20.0
Phenanthrene	Ave	1.005	0.8861	0.7000	4.41	5.00	-11.8	20.0
Anthracene	QuaF		0.6566*	0.7000	4.12	5.00	-17.6	20.0
Fluoranthene	QuaF		0.9721	0.6000	4.40	5.00	-11.9	20.0
Pyrene	Ave	1.007	0.8507	0.6000	4.22	5.00	-15.5	20.0
Benzo[a]anthracene	Ave	0.9278	0.8063	0.7000	4.35	5.00	-13.1	20.0
Chrysene	Ave	0.9515	0.8138	0.7000	4.28	5.00	-14.5	20.0
Benzo[b]fluoranthene	QuaF		0.9855	0.4000	3.94	5.00	-21.1*	20.0
Benzo[k]fluoranthene	QuaF		1.022	0.4000	4.22	5.00	-15.6	20.0
Benzo[a]pyrene	QuaF		0.8773	0.4000	4.42	5.00	-11.6	20.0
Indeno[1,2,3-cd]pyrene	Ave	0.8617	0.7726	0.2000	4.48	5.00	-10.3	20.0
Dibenz(a,h)anthracene	QuaF		0.7953	0.2000	4.64	5.00	-7.1	20.0
Benzo[g,h,i]perylene	QuaF		0.8107	0.2000	4.31	5.00	-13.9	20.0
o-Terphenyl	Ave	0.4125	0.3360		4.07	5.00	-18.5	20.0

TestAmerica Savannah  
Target Compound Quantitation Report

Data File: \\ChromNA\Savannah\ChromData\CMSD\20150818-22356.b\1DF18002.D  
 Lims ID: CCVIS  
 Client ID:  
 Sample Type: CCVIS  
 Inject. Date: 18-Aug-2015 13:17:30 ALS Bottle#: 2 Worklist Smp#: 2  
 Injection Vol: 2.0 ul Dil. Factor: 1.0000  
 Sample Info: CCVIS  
 Misc. Info.: 680-0022356-002  
 Operator ID: LIMS import Instrument ID: CMSD  
 Sublist: chrom-8270\_New\_LLPAH\_CMSD\*sub1  
 Method: \\ChromNA\Savannah\ChromData\CMSD\20150818-22356.b\8270\_New\_LLPAH\_CMSD.m  
 Limit Group: 8270D\_LL\_PAH  
 Last Update: 19-Aug-2015 12:01:34 Calib Date: 13-Aug-2015 21:10:30  
 Integrator: RTE ID Type: Deconvolution ID  
 Quant Method: Internal Standard Quant By: Initial Calibration  
 Last ICal File: \\ChromNA\Savannah\ChromData\CMSD\20150813-22241.b\1DF13008.D  
 Column 1 : Restek RXi-5Sil MS ( 0.25 mm) Det: MS SCAN  
 Process Host: XAWRK003

First Level Reviewer: millsj

Date:

19-Aug-2015 11:49:36

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
* 1 Naphthalene-d8	136	5.841	5.841	0.000	99	446592	2.00	2.00	
* 2 Acenaphthene-d10	164	7.267	7.267	0.000	96	253456	2.00	2.00	
* 3 Phenanthrene-d10	188	8.448	8.448	0.000	98	608623	2.00	2.00	
* 4 Chrysene-d12	240	10.654	10.654	0.000	99	685381	2.00	2.00	
* 5 Perylene-d12	264	11.930	11.930	0.000	99	544058	2.00	2.00	
\$ 6 o-Terphenyl	230	8.763	8.763	0.000	86	575671	5.00	4.07	
7 Naphthalene	128	5.857	5.857	0.000	99	830005	5.00	4.10	
8 2-Methylnaphthalene	142	6.429	6.429	0.000	83	591289	5.00	4.39	
9 1-Methylnaphthalene	142	6.509	6.509	0.000	90	520318	5.00	4.44	
10 1,1'-Biphenyl	154	6.819	6.819	0.000	98	668966	5.00	4.28	
11 Acenaphthylene	152	7.161	7.161	0.000	97	958375	5.00	4.23	
12 Acenaphthene	153	7.289	7.289	0.000	96	597143	5.00	3.93	
13 Dibenzofuran	168	7.438	7.438	0.000	98	869860	5.00	4.48	
14 Fluorene	166	7.700	7.700	0.000	94	712341	5.00	4.39	
15 Phenanthrene	178	8.469	8.469	0.000	97	1348237	5.00	4.41	
16 Anthracene	178	8.501	8.501	0.000	98	999071	5.00	4.12	
17 Fluoranthene	202	9.420	9.420	0.000	98	1479080	5.00	4.40	
18 Pyrene	202	9.607	9.607	0.000	98	1457554	5.00	4.22	
19 Benzo[a]anthracene	228	10.638	10.638	0.000	98	1381596	5.00	4.35	
20 Chrysene	228	10.675	10.675	0.000	98	1394347	5.00	4.28	
21 Benzo[b]fluoranthene	252	11.583	11.583	0.000	98	1340359	5.00	3.94	
22 Benzo[k]fluoranthene	252	11.604	11.604	0.000	99	1390116	5.00	4.22	
23 Benzo[a]pyrene	252	11.871	11.871	0.000	97	1193228	5.00	4.42	
24 Indeno[1,2,3-cd]pyrene	276	12.897	12.897	0.000	98	1323874	5.00	4.48	
25 Dibenz(a,h)anthracene	278	12.902	12.902	0.000	94	1081747	5.00	4.64	
26 Benzo[g,h,i]perylene	276	13.164	13.164	0.000	98	1102694	5.00	4.31	

Report Date: 19-Aug-2015 12:01:34

Chrom Revision: 2.2 23-Jul-2015 08:26:08

**Reagents:**

SMLLPAH5.0LVI\_00030

Amount Added: 1.00

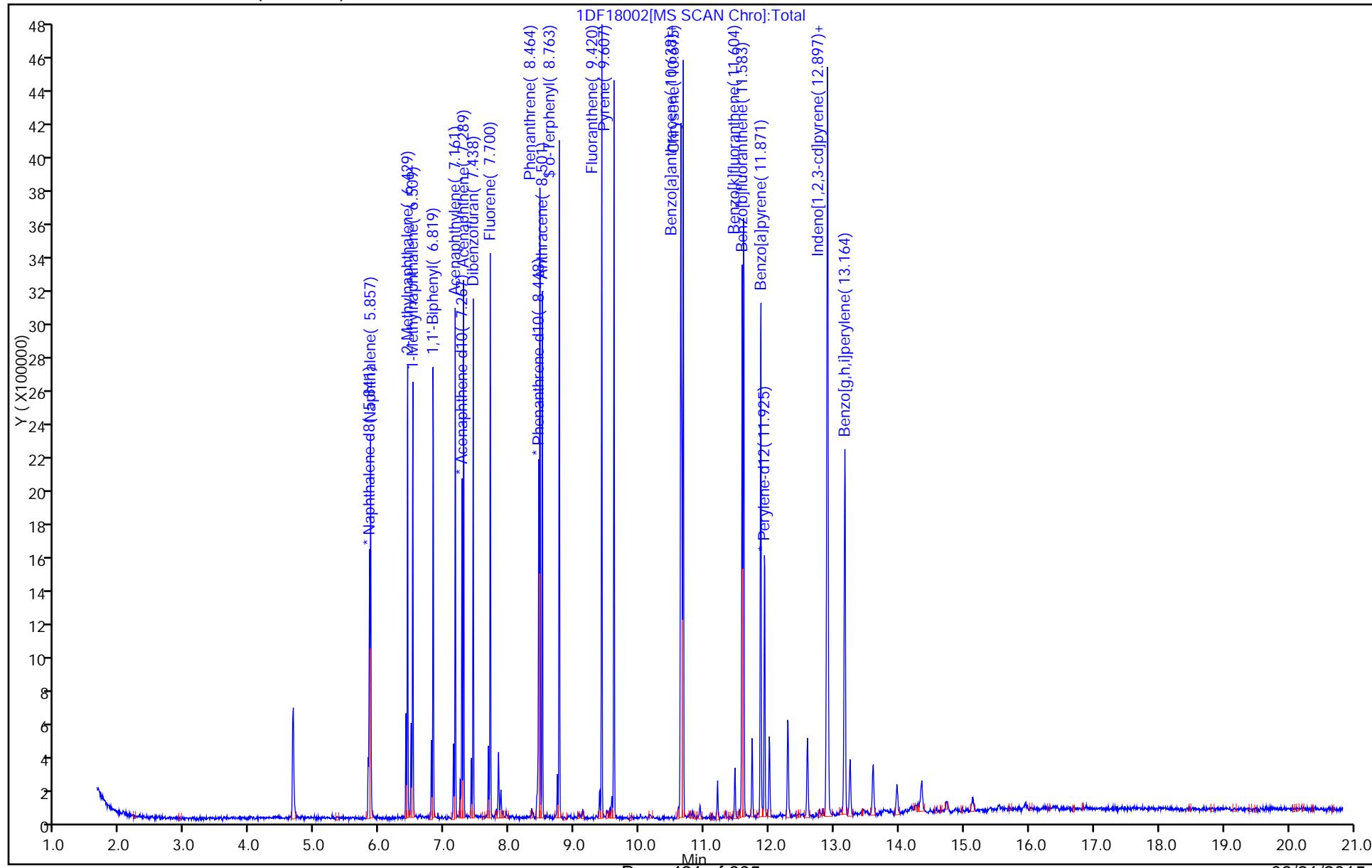
Units: mL

Report Date: 19-Aug-2015 12:01:35

Chrom Revision: 2.2 23-Jul-2015 08:26:08

## TestAmerica Savannah

Data File: \\ChromNA\\Savannah\\ChromData\CMSD\\20150818-22356.b\\1DF18002.D  
Injection Date: 18-Aug-2015 13:17:30 Instrument ID: CMSD  
Lims ID: CCVIS Operator ID: LIMS import  
Client ID:  
Injection Vol: 2.0 ul Dil. Factor: 1.0000 Worklist Smp#: 2  
Method: 8270\_New\_LLPAH\_CMSD Limit Group: 8270D\_LL\_PAH  
Column: Restek RXi-5Sil MS ( 0.25 mm)



FORM VII  
GC/MS SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Savannah

Job No.: 680-115692-1

SDG No.: 680-115692-01

Lab Sample ID: ICV 680-396036/9

Calibration Date: 08/13/2015 20:38

Instrument ID: CMSK

Calib Start Date: 08/13/2015 17:33

GC Column: RXi- 5Sil MS ID: 0.25 (mm)

Calib End Date: 08/13/2015 20:12

Lab File ID: 1KF13009.D

Conc. Units: ug/mL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Naphthalene	Ave	0.9236	1.046	0.7000	5.66	5.00	13.2	20.0
2-Methylnaphthalene	Ave	0.6010	0.6748	0.4000	5.61	5.00	12.3	20.0
1-Methylnaphthalene	Ave	0.5366	0.6389		5.95	5.00	19.1	20.0
1,1'-Biphenyl	Ave	1.381	1.751		6.34	5.00	26.8*	20.0
Acenaphthylene	Ave	1.789	2.130	0.9000	5.95	5.00	19.1	20.0
Acenaphthene	Ave	1.183	1.413	0.9000	5.97	5.00	19.5	20.0
Dibenzofuran	Ave	1.502	1.846		6.15	5.00	23.0*	20.0
Fluorene	Ave	1.288	1.574	0.9000	6.11	5.00	22.2*	20.0
Phenanthrene	Ave	0.9918	1.160	0.7000	5.85	5.00	17.0	20.0
Anthracene	Ave	0.8399	0.997	0.7000	5.93	5.00	18.7	20.0
Fluoranthene	Ave	1.057	1.309	0.6000	6.19	5.00	23.9*	20.0
Pyrene	Ave	0.9579	1.116	0.6000	5.83	5.00	16.5	20.0
Benzo[a]anthracene	Ave	0.9447	1.077	0.7000	5.70	5.00	14.0	20.0
Chrysene	Ave	0.9241	1.088	0.7000	5.88	5.00	17.7	20.0
Benzo[b]fluoranthene	Ave	0.9743	1.161	0.4000	5.96	5.00	19.1	20.0
Benzo[k]fluoranthene	Ave	1.029	1.197	0.4000	5.82	5.00	16.3	20.0
Benzo[a]pyrene	Ave	0.8721	0.9905	0.4000	5.68	5.00	13.6	20.0
Indeno[1,2,3-cd]pyrene	Ave	0.8688	1.037	0.2000	5.97	5.00	19.4	20.0
Dibenz(a,h)anthracene	Ave	0.7583	0.9474	0.2000	6.25	5.00	24.9*	20.0
Benzo[g,h,i]perylene	Ave	0.7726	0.9437	0.2000	6.11	5.00	22.1*	20.0
o-Terphenyl	Ave	0.4830	0.5389		5.58	5.00	11.6	20.0

TestAmerica Savannah  
Target Compound Quantitation Report

Data File: \\ChromNA\Savannah\ChromData\CMSK\20150813-22239.b\1KF13009.D  
 Lims ID: ICV  
 Client ID:  
 Sample Type: CCV  
 Inject. Date: 13-Aug-2015 20:38:30 ALS Bottle#: 9 Worklist Smp#: 9  
 Injection Vol: 2.0 ul Dil. Factor: 1.0000  
 Sample Info: ICV  
 Misc. Info.: 680-0022239-009  
 Operator ID: LIMS import Instrument ID: CMSK  
 Sublist: chrom-8270\_LLPAH\_CMSK\*sub4  
 Method: \\ChromNA\Savannah\ChromData\CMSK\20150813-22239.b\8270\_LLPAH\_CMSK.m  
 Limit Group: 8270D\_LL\_PAH  
 Last Update: 17-Aug-2015 09:09:02 Calib Date: 13-Aug-2015 20:12:30  
 Integrator: RTE ID Type: Deconvolution ID  
 Quant Method: Internal Standard Quant By: Initial Calibration  
 Last ICal File: \\ChromNA\Savannah\ChromData\CMSK\20150813-22239.b\1KF13008.D  
 Column 1 : Restek RXi-5Sil MS ( 0.25 mm) Det: MS SCAN  
 Process Host: XAWRK020

First Level Reviewer: millsj

Date:

17-Aug-2015 09:09:02

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
* 1 Naphthalene-d8	136	4.260	4.260	0.000	98	170670	2.00	2.00	
* 2 Acenaphthene-d10	164	6.052	6.052	0.000	97	78212	2.00	2.00	
* 3 Phenanthrene-d10	188	7.662	7.662	0.000	98	152655	2.00	2.00	
* 4 Chrysene-d12	240	10.482	10.506	-0.024	99	184337	2.00	2.00	
* 5 Perylene-d12	264	12.010	12.063	-0.053	99	171725	2.00	2.00	
\$ 6 o-Terphenyl	230	8.097	8.097	0.000	90	248324	5.00	5.58	
7 Naphthalene	128	4.283	4.284	-0.001	99	446232	5.00	5.66	
8 2-Methylnaphthalene	142	4.959	4.959	0.000	85	287927	5.00	5.61	
9 1-Methylnaphthalene	142	5.065	5.059	0.006	93	272582	5.00	5.95	
10 1,1'-Biphenyl	154	5.441	5.441	0.000	98	342422	5.00	6.34	
11 Acenaphthylene	152	5.899	5.899	0.000	97	416453	5.00	5.95	
12 Acenaphthene	153	6.087	6.087	0.000	95	276301	5.00	5.97	
13 Dibenzofuran	168	6.269	6.269	0.000	100	361023	5.00	6.15	
14 Fluorene	166	6.640	6.640	0.000	95	307702	5.00	6.11	
15 Phenanthrene	178	7.691	7.691	0.000	98	442763	5.00	5.85	
16 Anthracene	178	7.744	7.744	0.000	98	380351	5.00	5.93	
17 Fluoranthene	202	8.984	8.984	0.000	97	499596	5.00	6.19	
18 Pyrene	202	9.225	9.225	0.000	97	514370	5.00	5.83	
19 Benzo[a]anthracene	228	10.470	10.494	-0.024	98	496295	5.00	5.70	
20 Chrysene	228	10.512	10.535	-0.023	98	501257	5.00	5.88	
21 Benzo[b]fluoranthene	252	11.575	11.622	-0.047	98	498379	5.00	5.96	
22 Benzo[k]fluoranthene	252	11.604	11.652	-0.048	98	514056	5.00	5.82	
23 Benzo[a]pyrene	252	11.945	11.992	-0.047	97	425220	5.00	5.68	
24 Indeno[1,2,3-cd]pyrene	276	13.502	13.555	-0.053	97	477927	5.00	5.97	
25 Dibenz(a,h)anthracene	278	13.526	13.585	-0.059	95	406725	5.00	6.25	
26 Benzo[g,h,i]perylene	276	13.949	14.008	-0.059	98	405151	5.00	6.11	

Report Date: 17-Aug-2015 09:09:03

Chrom Revision: 2.2 23-Jul-2015 08:26:08

**Reagents:**

SMLLPAHICVLVI\_00036

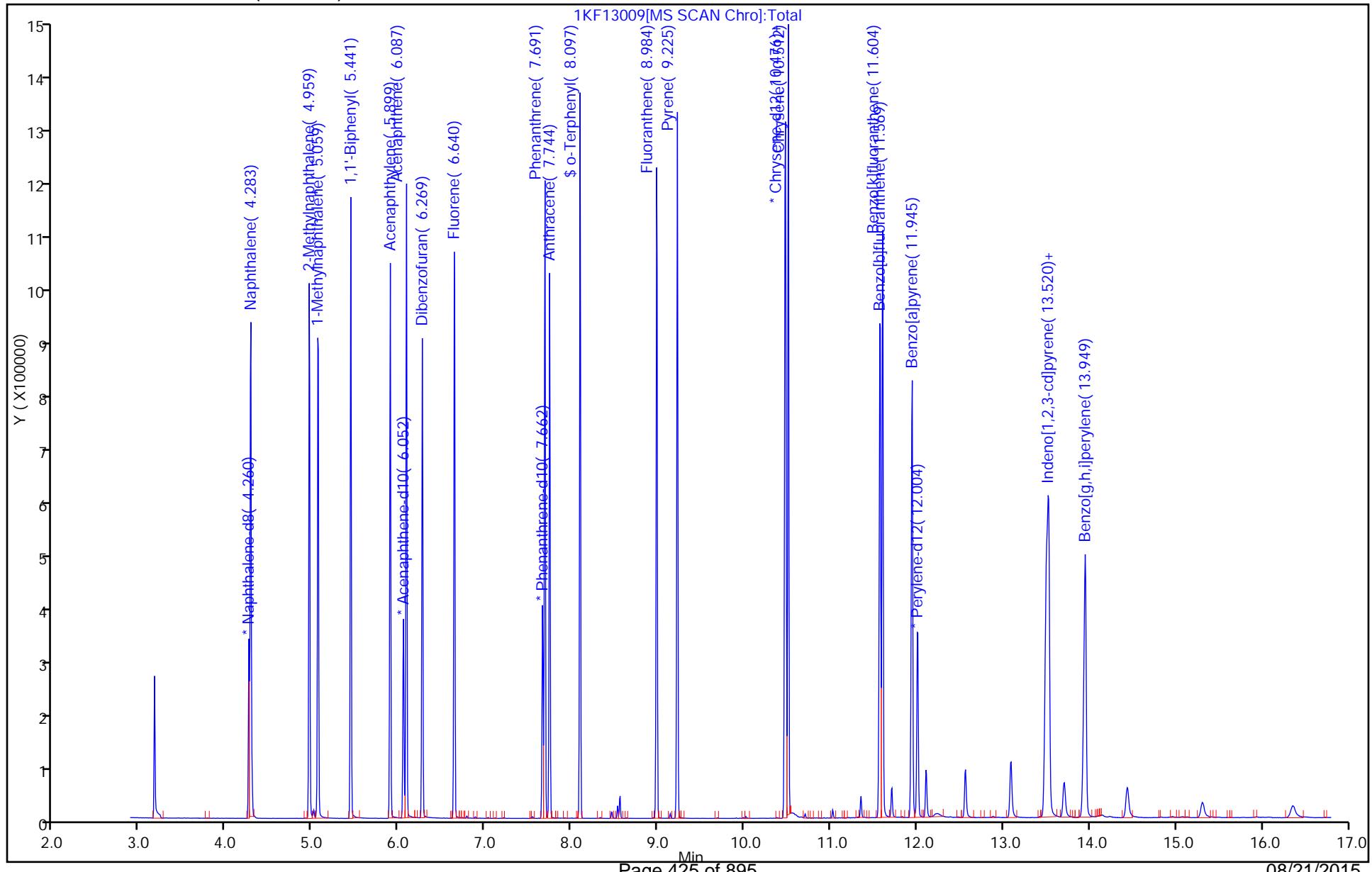
Amount Added: 1.00

Units: mL

Report Date: 17-Aug-2015 09:09:03

Chrom Revision: 2.2 23-Jul-2015 08:26:08

TestAmerica Savannah  
 Data File: \\ChromNA\\Savannah\\ChromData\CMSK\\20150813-22239.b\\1KF13009.D  
 Injection Date: 13-Aug-2015 20:38:30 Instrument ID: CMSK  
 Lims ID: ICV Operator ID: LIMS import  
 Client ID:  
 Injection Vol: 2.0 ul Worklist Smp#: 9  
 Method: 8270\_LLPAH\_CMSK Dil. Factor: 1.0000  
 Column: Restek RXi-5Sil MS ( 0.25 mm) Limit Group: 8270D\_LL\_PAH



FORM VII  
GC/MS SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Savannah

Job No.: 680-115692-1

SDG No.: 680-115692-01

Lab Sample ID: CCVIS 680-396964/2

Calibration Date: 08/19/2015 12:12

Instrument ID: CMSK

Calib Start Date: 08/13/2015 17:33

GC Column: RXi- 5Sil MS ID: 0.25 (mm)

Calib End Date: 08/13/2015 20:12

Lab File ID: 1KH19002.D

Conc. Units: ug/mL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Naphthalene	Ave	0.9236	0.7885	0.7000	4.27	5.00	-14.6	20.0
2-Methylnaphthalene	Ave	0.6010	0.5279	0.4000	4.39	5.00	-12.2	20.0
1-Methylnaphthalene	Ave	0.5366	0.4719		4.40	5.00	-12.0	20.0
1,1'-Biphenyl	Ave	1.381	1.210		4.38	5.00	-12.4	20.0
Acenaphthylene	Ave	1.789	1.599	0.9000	4.47	5.00	-10.6	20.0
Acenaphthene	Ave	1.183	1.031	0.9000	4.36	5.00	-12.8	20.0
Dibenzofuran	Ave	1.502	1.291		4.30	5.00	-14.0	20.0
Fluorene	Ave	1.288	1.121	0.9000	4.35	5.00	-12.9	20.0
Phenanthrene	Ave	0.9918	0.8753	0.7000	4.41	5.00	-11.7	20.0
Anthracene	Ave	0.8399	0.7428	0.7000	4.42	5.00	-11.6	20.0
Fluoranthene	Ave	1.057	0.8309	0.6000	3.93	5.00	-21.4*	20.0
Pyrene	Ave	0.9579	1.074	0.6000	5.61	5.00	12.1	20.0
Benzo[a]anthracene	Ave	0.9447	0.8330	0.7000	4.41	5.00	-11.8	20.0
Chrysene	Ave	0.9241	0.8321	0.7000	4.50	5.00	-10.0	20.0
Benzo[b]fluoranthene	Ave	0.9743	0.9829	0.4000	5.04	5.00	0.9	20.0
Benzo[k]fluoranthene	Ave	1.029	0.9185	0.4000	4.46	5.00	-10.8	20.0
Benzo[a]pyrene	Ave	0.8721	0.7830	0.4000	4.49	5.00	-10.2	20.0
Indeno[1,2,3-cd]pyrene	Ave	0.8688	0.5881	0.2000	3.38	5.00	-32.3*	20.0
Dibenz(a,h)anthracene	Ave	0.7583	0.5875	0.2000	3.87	5.00	-22.5*	20.0
Benzo[g,h,i]perylene	Ave	0.7726	0.6466	0.2000	4.18	5.00	-16.3	20.0
o-Terphenyl	Ave	0.4830	0.6269		6.49	5.00	29.8*	20.0

TestAmerica Savannah  
Target Compound Quantitation Report

Data File: \\ChromNA\Savannah\ChromData\CMSK\20150819-22399.b\1KH19002.D  
 Lims ID: CCVIS  
 Client ID:  
 Sample Type: CCVIS  
 Inject. Date: 19-Aug-2015 12:12:30 ALS Bottle#: 2 Worklist Smp#: 2  
 Injection Vol: 2.0 ul Dil. Factor: 1.0000  
 Sample Info: CCVIS  
 Misc. Info.: 680-0022399-002  
 Operator ID: LIMS import Instrument ID: CMSK  
 Sublist: chrom-8270\_LLPAH\_CMSK\*sub4  
 Method: \\ChromNA\Savannah\ChromData\CMSK\20150819-22399.b\8270\_LLPAH\_CMSK.m  
 Limit Group: 8270D\_LL\_PAH  
 Last Update: 20-Aug-2015 10:44:08 Calib Date: 13-Aug-2015 20:12:30  
 Integrator: RTE ID Type: Deconvolution ID  
 Quant Method: Internal Standard Quant By: Initial Calibration  
 Last ICal File: \\ChromNA\Savannah\ChromData\CMSK\20150813-22239.b\1KF13008.D  
 Column 1 : Restek RXi-5Sil MS ( 0.25 mm) Det: MS SCAN  
 Process Host: XAWRK001

First Level Reviewer: moorer

Date:

20-Aug-2015 10:44:08

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
* 1 Naphthalene-d8	136	4.137	4.137	0.000	98	155378	2.00	2.00	
* 2 Acenaphthene-d10	164	5.923	5.923	0.000	95	73802	2.00	2.00	
* 3 Phenanthrene-d10	188	7.533	7.533	0.000	98	127555	2.00	2.00	
* 4 Chrysene-d12	240	10.353	10.353	0.000	99	102720	2.00	2.00	
* 5 Perylene-d12	264	11.828	11.828	0.000	98	82133	2.00	2.00	
\$ 6 o-Terphenyl	230	7.968	7.968	0.000	90	160981	5.00	6.49	
7 Naphthalene	128	4.154	4.154	0.000	99	306296	5.00	4.27	
8 2-Methylnaphthalene	142	4.836	4.836	0.000	85	205065	5.00	4.39	
9 1-Methylnaphthalene	142	4.936	4.936	0.000	93	183312	5.00	4.40	
10 1,1'-Biphenyl	154	5.312	5.312	0.000	98	223330	5.00	4.38	
11 Acenaphthylene	152	5.770	5.770	0.000	97	294956	5.00	4.47	
12 Acenaphthene	153	5.958	5.958	0.000	95	190299	5.00	4.36	
13 Dibenzofuran	168	6.140	6.140	0.000	100	238257	5.00	4.30	
14 Fluorene	166	6.510	6.510	0.000	95	206912	5.00	4.35	
15 Phenanthrene	178	7.556	7.556	0.000	97	279117	5.00	4.41	
16 Anthracene	178	7.615	7.615	0.000	98	236858	5.00	4.42	
17 Fluoranthene	202	8.855	8.855	0.000	97	264968	5.00	3.93	
18 Pyrene	202	9.096	9.096	0.000	97	275801	5.00	5.61	
19 Benzo[a]anthracene	228	10.341	10.341	0.000	98	213904	5.00	4.41	
20 Chrysene	228	10.377	10.377	0.000	98	213676	5.00	4.50	
21 Benzo[b]fluoranthene	252	11.411	11.411	0.000	98	201816	5.00	5.04	
22 Benzo[k]fluoranthene	252	11.440	11.440	0.000	98	188592	5.00	4.46	
23 Benzo[a]pyrene	252	11.769	11.769	0.000	97	160765	5.00	4.49	
24 Indeno[1,2,3-cd]pyrene	276	13.244	13.244	0.000	98	151017	5.00	3.38	
25 Dibenz(a,h)anthracene	278	13.267	13.267	0.000	95	120637	5.00	3.87	
26 Benzo[g,h,i]perylene	276	13.667	13.667	0.000	98	132768	5.00	4.18	

Report Date: 20-Aug-2015 10:44:08

Chrom Revision: 2.2 23-Jul-2015 08:26:08

**Reagents:**

SMLLPAH5.0LVI\_00030

Amount Added: 1.00

Units: mL

Report Date: 20-Aug-2015 10:44:08

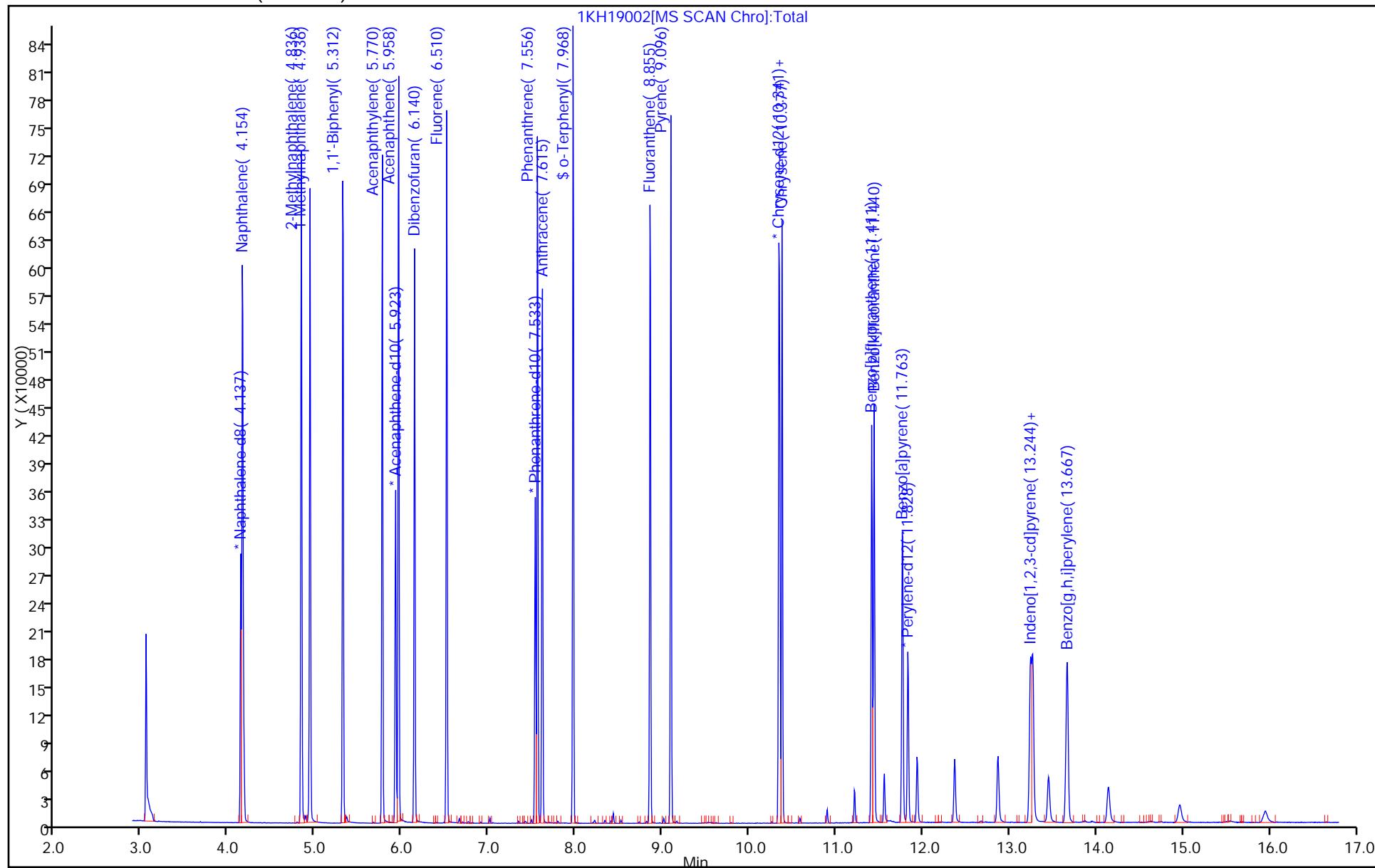
Chrom Revision: 2.2 23-Jul-2015 08:26:08

Data File: \\ChromNA\\Savannah\\ChromData\CMSK\\20150819-22399.b\\1KH19002.D  
 Injection Date: 19-Aug-2015 12:12:30  
 Lims ID: CCVIS  
 Client ID:  
 Injection Vol: 2.0 ul  
 Method: 8270\_LLPAH\_CMSK  
 Column: Restek RXi-5Sil MS ( 0.25 mm)

Operator ID: LIMS import  
 Worklist Smp#: 2

Dil. Factor: 1.0000  
 Limit Group: 8270D\_LL\_PAH

ALS Bottle#: 2



FORM VII  
GC/MS SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Savannah

Job No.: 680-115692-1

SDG No.: 680-115692-01

Lab Sample ID: ICV 680-395667/9

Calibration Date: 08/12/2015 17:06

Instrument ID: CMSY

Calib Start Date: 08/12/2015 13:48

GC Column: RXi- 5Sil MS ID: 0.25 (mm)

Calib End Date: 08/12/2015 16:37

Lab File ID: 1YF12009.D

Conc. Units: ug/mL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Naphthalene	Ave	0.9028	1.001	0.7000	5.55	5.00	10.9	30.0
2-Methylnaphthalene	Ave	0.6453	0.7088	0.4000	5.49	5.00	9.8	30.0
1-Methylnaphthalene	Ave	0.5729	0.6551		5.72	5.00	14.4	30.0
1,1'-Biphenyl	Ave	1.372	1.644		5.99	5.00	19.9	30.0
Acenaphthylene	Ave	1.828	2.099	0.9000	5.74	5.00	14.8	30.0
Acenaphthene	Ave	1.196	1.385	0.9000	5.79	5.00	15.9	30.0
Dibenzofuran	Ave	1.586	1.895		5.97	5.00	19.5	30.0
Fluorene	Ave	1.375	1.581	0.9000	5.75	5.00	15.0	30.0
Phenanthrene	Ave	0.9559	1.076	0.7000	5.63	5.00	12.6	30.0
Anthracene	Ave	0.8207	0.9172	0.7000	5.59	5.00	11.8	30.0
Fluoranthene	Ave	1.148	1.341	0.6000	5.84	5.00	16.8	30.0
Pyrene	Ave	0.8741	0.9664	0.6000	5.53	5.00	10.6	30.0
Benzo[a]anthracene	Ave	0.9625	1.083	0.7000	5.63	5.00	12.5	30.0
Chrysene	Ave	0.9200	1.034	0.7000	5.62	5.00	12.4	30.0
Benzo[b]fluoranthene	Ave	0.9776	1.086	0.4000	5.56	5.00	11.1	30.0
Benzo[k]fluoranthene	Ave	0.9541	1.113	0.4000	5.83	5.00	16.6	30.0
Benzo[a]pyrene	Ave	0.9090	0.999	0.4000	5.49	5.00	9.9	30.0
Indeno[1,2,3-cd]pyrene	Ave	1.470	1.657	0.2000	5.63	5.00	12.7	30.0
Dibenz(a,h)anthracene	Ave	1.109	1.265	0.2000	5.70	5.00	14.0	30.0
Benzo[g,h,i]perylene	Ave	1.057	1.186	0.2000	5.61	5.00	12.2	30.0
o-Terphenyl	Ave	0.4570	0.4995		5.47	5.00	9.3	30.0

TestAmerica Savannah  
Target Compound Quantitation Report

Data File: \\ChromNA\Savannah\ChromData\CMSY\20150812-22174.b\1YF12009.D  
 Lims ID: ICV  
 Client ID:  
 Sample Type: ICV  
 Inject. Date: 12-Aug-2015 17:06:30 ALS Bottle#: 9 Worklist Smp#: 9  
 Injection Vol: 2.0 ul Dil. Factor: 1.0000  
 Sample Info: ICV  
 Misc. Info.: 680-0022174-009  
 Operator ID: LIMS import Instrument ID: CMSY  
 Sublist:  
 Method: \\ChromNA\Savannah\ChromData\CMSY\20150812-22174.b\8270D\_LLPAH\_MSY.m  
 Limit Group: 8270D\_LL\_PAH  
 Last Update: 13-Aug-2015 09:19:54 Calib Date: 12-Aug-2015 16:37:30  
 Integrator: RTE ID Type: Deconvolution ID  
 Quant Method: Internal Standard Quant By: Initial Calibration  
 Last ICal File: \\ChromNA\Savannah\ChromData\CMSY\20150812-22174.b\1YF12008.D  
 Column 1 : Restek RXi-5Sil MS ( 0.25 mm) Det: MS SCAN  
 Process Host: XAWRK050

First Level Reviewer: millsj

Date:

13-Aug-2015 09:08:04

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
* 1 Naphthalene-d8	136	6.440	6.441	-0.001	99	63663	2.00	2.00	
* 2 Acenaphthene-d10	164	8.050	8.050	0.000	97	35148	2.00	2.00	
* 3 Phenanthrene-d10	188	9.382	9.382	0.000	98	77470	2.00	2.00	
* 4 Chrysene-d12	240	11.869	11.869	0.000	98	107763	2.00	2.00	
* 5 Perylene-d12	264	13.666	13.667	-0.001	99	125103	2.00	2.00	
\$ 6 o-Terphenyl	230	9.730	9.730	0.000	90	134570	5.00	5.47	
7 Naphthalene	128	6.462	6.462	0.000	98	159370	5.00	5.55	
9 2-Methylnaphthalene	142	7.109	7.109	0.000	83	112811	5.00	5.49	
10 1-Methylnaphthalene	142	7.195	7.195	0.000	92	104265	5.00	5.72	
11 1,1'-Biphenyl	154	7.542	7.537	0.005	99	144490	5.00	5.99	
12 Acenaphthylene	152	7.922	7.922	0.000	97	184407	5.00	5.74	
14 Acenaphthene	153	8.077	8.077	0.000	94	121735	5.00	5.79	
15 Dibenzofuran	168	8.238	8.238	0.000	98	166536	5.00	5.97	
16 Fluorene	166	8.548	8.548	0.000	94	138921	5.00	5.75	
17 Phenanthrene	178	9.409	9.409	0.000	97	208478	5.00	5.63	
18 Anthracene	178	9.452	9.452	0.000	99	177637	5.00	5.59	
19 Fluoranthene	202	10.479	10.479	0.000	98	259682	5.00	5.84	
20 Pyrene	202	10.682	10.682	0.000	98	260345	5.00	5.53	
21 Benzo[a]anthracene	228	11.853	11.853	0.000	97	291774	5.00	5.63	
22 Chrysene	228	11.896	11.896	0.000	99	278488	5.00	5.62	
23 Benzo[b]fluoranthene	252	13.158	13.158	0.000	97	339730	5.00	5.56	
24 Benzo[k]fluoranthene	252	13.196	13.196	0.000	97	348013	5.00	5.83	
25 Benzo[a]pyrene	252	13.597	13.597	0.000	98	312345	5.00	5.49	
26 Indeno[1,2,3-cd]pyrene	276	15.180	15.180	0.000	96	446300	5.00	5.63	
27 Dibenz(a,h)anthracene	278	15.196	15.196	0.000	96	395632	5.00	5.70	
28 Benzo[g,h,i]perylene	276	15.555	15.555	0.000	95	370859	5.00	5.61	

Report Date: 13-Aug-2015 09:19:55

Chrom Revision: 2.2 23-Jul-2015 08:26:08

**Reagents:**

SMLLPAHICVLVI\_00036

Amount Added: 1.00

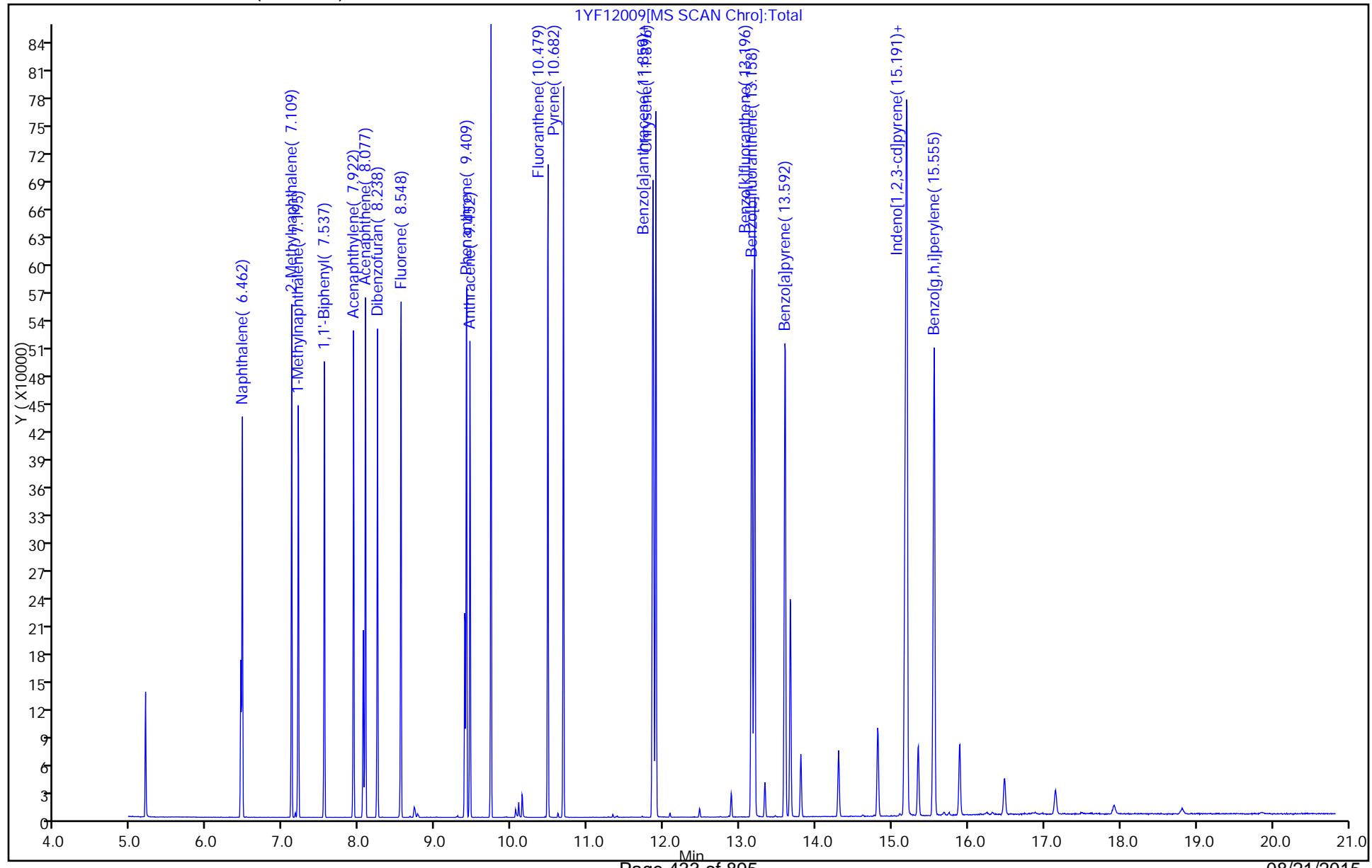
Units: mL

Report Date: 13-Aug-2015 09:19:55

Chrom Revision: 2.2 23-Jul-2015 08:26:08

## TestAmerica Savannah

Data File: \\ChromNA\\Savannah\\ChromData\\CMSY\\20150812-22174.b\\1YF12009.D  
 Injection Date: 12-Aug-2015 17:06:30 Instrument ID: CMSY  
 Lims ID: ICV Operator ID: LIMS import  
 Client ID:  
 Injection Vol: 2.0 ul Worklist Smp#: 9  
 Method: 8270D\_LLPAH\_MSY Dil. Factor: 1.0000  
 Column: Restek RXi-5Sil MS ( 0.25 mm) Limit Group: 8270D\_LL\_PAH



FORM VII  
GC/MS SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Savannah  
 SDG No.: 680-115692-01  
 Lab Sample ID: CCVIS 680-396712/2  
 Instrument ID: CMSY  
 GC Column: RXi- 5Sil MS ID: 0.25 (mm)  
 Lab File ID: 1YF18102.D

Job No.: 680-115692-1  
 Calibration Date: 08/18/2015 12:10  
 Calib Start Date: 08/12/2015 13:48  
 Calib End Date: 08/12/2015 16:37  
 Conc. Units: ug/mL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Naphthalene	Ave	0.9028	0.7559	0.7000	4.19	5.00	-16.3	20.0
2-Methylnaphthalene	Ave	0.6453	0.5451	0.4000	4.22	5.00	-15.5	20.0
1-Methylnaphthalene	Ave	0.5729	0.4807		4.20	5.00	-16.1	20.0
Acenaphthylene	Ave	1.828	1.551	0.9000	4.24	5.00	-15.1	20.0
Acenaphthene	Ave	1.196	1.017	0.9000	4.25	5.00	-14.9	20.0
Fluorene	Ave	1.375	1.147	0.9000	4.17	5.00	-16.6	20.0
Phenanthrene	Ave	0.9559	0.8257	0.7000	4.32	5.00	-13.6	20.0
Anthracene	Ave	0.8207	0.7068	0.7000	4.31	5.00	-13.9	20.0
Fluoranthene	Ave	1.148	1.000	0.6000	4.35	5.00	-12.9	20.0
Pyrene	Ave	0.8741	0.7707	0.6000	4.41	5.00	-11.8	20.0
Benzo[a]anthracene	Ave	0.9625	0.8258	0.7000	4.29	5.00	-14.2	20.0
Chrysene	Ave	0.9200	0.8105	0.7000	4.40	5.00	-11.9	20.0
Benzo[b]fluoranthene	Ave	0.9776	0.8523	0.4000	4.36	5.00	-12.8	20.0
Benzo[k]fluoranthene	Ave	0.9541	0.8536	0.4000	4.47	5.00	-10.5	20.0
Benzo[a]pyrene	Ave	0.9090	0.8074	0.4000	4.44	5.00	-11.2	20.0
Indeno[1,2,3-cd]pyrene	Ave	1.470	1.361	0.2000	4.63	5.00	-7.5	20.0
Dibenz(a,h)anthracene	Ave	1.109	1.011	0.2000	4.56	5.00	-8.9	20.0
Benzo[g,h,i]perylene	Ave	1.057	0.9915	0.2000	4.69	5.00	-6.2	20.0
o-Terphenyl	Ave	0.4570	0.3947		4.32	5.00	-13.6	20.0

TestAmerica Savannah  
Target Compound Quantitation Report

Data File: \\ChromNA\Savannah\ChromData\CMSY\20150818-22358.b\1YF18102.D  
 Lims ID: CCVIS  
 Client ID:  
 Sample Type: CCVIS  
 Inject. Date: 18-Aug-2015 12:10:30      ALS Bottle#: 2      Worklist Smp#: 2  
 Injection Vol: 2.0 ul      Dil. Factor: 1.0000  
 Sample Info: CCVIS  
 Misc. Info.: 680-0022358-002  
 Operator ID: LIMS import      Instrument ID: CMSY  
 Sublist: chrom-8270D\_LLPAH\_MSY\*sub5  
 Method: \\ChromNA\Savannah\ChromData\CMSY\20150818-22358.b\8270D\_LLPAH\_MSY.m  
 Limit Group: 8270D\_LL\_PAH  
 Last Update: 19-Aug-2015 11:22:28      Calib Date: 12-Aug-2015 16:37:30  
 Integrator: RTE      ID Type: Deconvolution ID  
 Quant Method: Internal Standard      Quant By: Initial Calibration  
 Last ICal File: \\ChromNA\Savannah\ChromData\CMSY\20150812-22174.b\1YF12008.D  
 Column 1 : Restek RXi-5Sil MS ( 0.25 mm)      Det: MS SCAN  
 Process Host: XAWRK003

First Level Reviewer: millsj

Date:

19-Aug-2015 10:39:46

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
* 1 Naphthalene-d8	136	6.366	6.366	0.000	99	53416	2.00	2.00	
* 2 Acenaphthene-d10	164	7.975	7.975	0.000	96	30050	2.00	2.00	
* 3 Phenanthrene-d10	188	9.307	9.307	0.000	97	63848	2.00	2.00	
* 4 Chrysene-d12	240	11.773	11.773	0.000	98	85611	2.00	2.00	
* 5 Perylene-d12	264	13.538	13.538	0.000	99	98322	2.00	2.00	
\$ 6 o-Terphenyl	230	9.655	9.655	0.000	90	84466	5.00	4.32	
7 Naphthalene	128	6.387	6.387	0.000	98	100945	5.00	4.19	
9 2-Methylnaphthalene	142	7.034	7.034	0.000	82	72790	5.00	4.22	
10 1-Methylnaphthalene	142	7.120	7.120	0.000	92	64196	5.00	4.20	
11 1,1'-Biphenyl	154	7.467	7.467	0.000	99	86094	5.00	4.18	
12 Acenaphthylene	152	7.847	7.847	0.000	97	116515	5.00	4.24	
14 Acenaphthene	153	8.002	8.002	0.000	94	76400	5.00	4.25	
15 Dibenzofuran	168	8.163	8.163	0.000	99	99367	5.00	4.17	
16 Fluorene	166	8.468	8.468	0.000	94	86165	5.00	4.17	
17 Phenanthrene	178	9.329	9.329	0.000	97	131803	5.00	4.32	
18 Anthracene	178	9.371	9.371	0.000	99	112818	5.00	4.31	
19 Fluoranthene	202	10.398	10.398	0.000	98	159617	5.00	4.35	
20 Pyrene	202	10.602	10.602	0.000	98	164959	5.00	4.41	
21 Benzo[a]anthracene	228	11.762	11.762	0.000	97	176736	5.00	4.29	
22 Chrysene	228	11.805	11.805	0.000	99	173460	5.00	4.40	
23 Benzo[b]fluoranthene	252	13.041	13.041	0.000	96	209508	5.00	4.36	
24 Benzo[k]fluoranthene	252	13.078	13.078	0.000	96	209811	5.00	4.47	
25 Benzo[a]pyrene	252	13.469	13.469	0.000	98	198463	5.00	4.44	
26 Indeno[1,2,3-cd]pyrene	276	15.025	15.025	0.000	96	291215	5.00	4.63	
27 Dibenz(a,h)anthracene	278	15.041	15.041	0.000	95	248413	5.00	4.56	
28 Benzo[g,h,i]perylene	276	15.399	15.399	0.000	95	243706	5.00	4.69	

Report Date: 19-Aug-2015 11:22:28

Chrom Revision: 2.2 23-Jul-2015 08:26:08

**Reagents:**

SMLLPAH5.0LVI\_00030

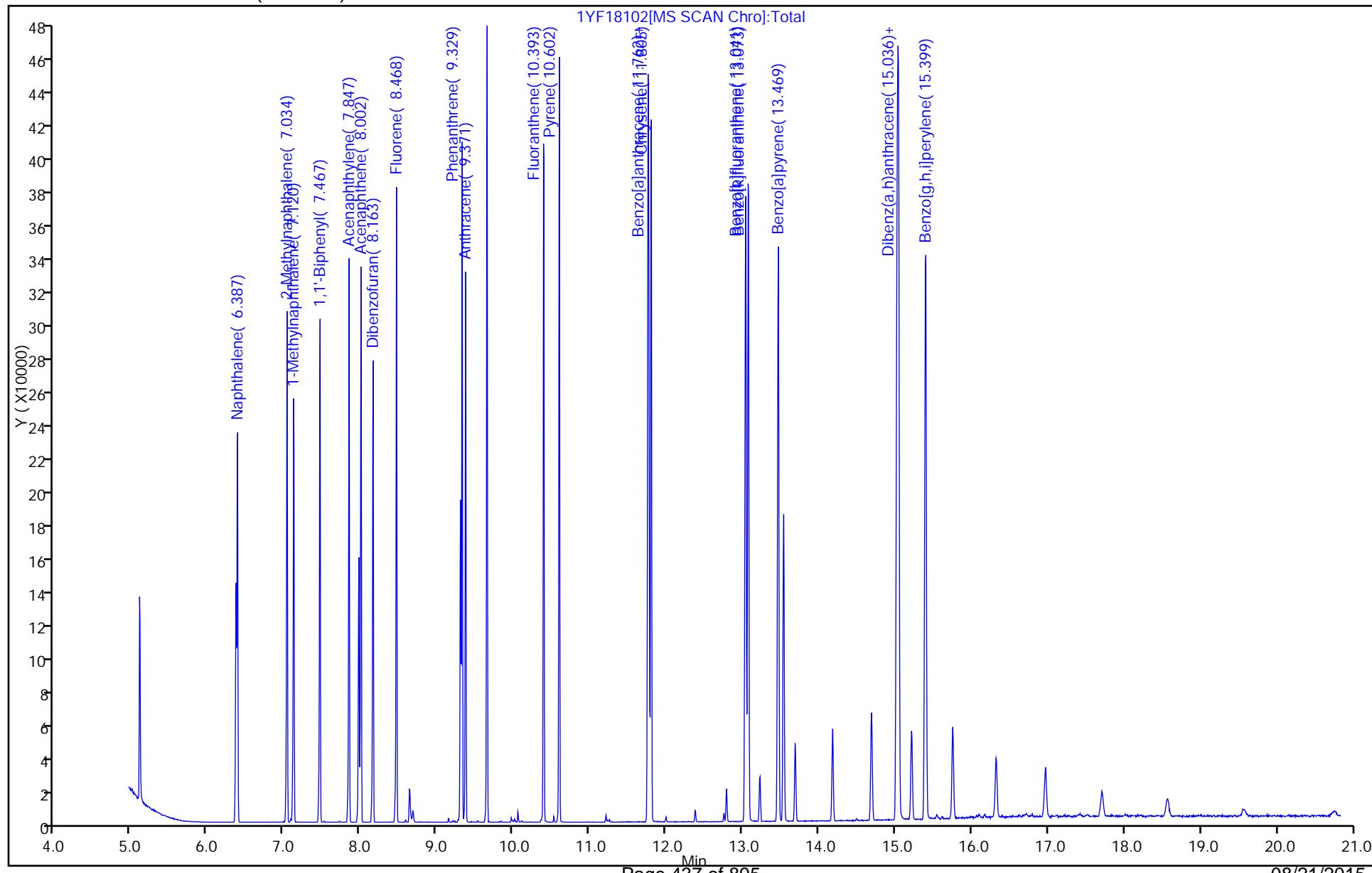
Amount Added: 1.00

Units: mL

Report Date: 19-Aug-2015 11:22:28

Chrom Revision: 2.2 23-Jul-2015 08:26:08

TestAmerica Savannah  
 Data File: \\ChromNA\\Savannah\\ChromData\\CMSY\\20150818-22358.b\\1YF18102.D  
 Injection Date: 18-Aug-2015 12:10:30 Instrument ID: CMSY  
 Lims ID: CCVIS Operator ID: LIMS import  
 Client ID:  
 Injection Vol: 2.0 ul Worklist Smp#: 2  
 Method: 8270D\_LLPAH\_MSY Dil. Factor: 1.0000  
 Column: Restek RXi-5Sil MS ( 0.25 mm) Limit Group: 8270D\_LL\_PAH



TestAmerica Savannah  
Target Compound Quantitation Report

Data File: \\ChromNA\Savannah\ChromData\CMSD\20150813-22241.b\1DF13101.D  
 Lims ID: DFTPP  
 Client ID:  
 Sample Type: DFTPP  
 Inject. Date: 13-Aug-2015 17:48:30 ALS Bottle#: 1 Worklist Smp#: 1  
 Injection Vol: 2.0 ul Dil. Factor: 1.0000  
 Sample Info: DFTPP  
 Misc. Info.: 680-0022241-001  
 Operator ID: LIMS import Instrument ID: CMSD  
 Method: \\ChromNA\Savannah\ChromData\CMSD\20150813-22241.b\8270\_New\_LLPAH\_CMSD.m  
 Limit Group: 8270D\_LL\_PAH  
 Last Update: 14-Aug-2015 09:15:27 Calib Date: 13-Aug-2015 21:10:30  
 Integrator: RTE ID Type: Deconvolution ID  
 Quant Method: Internal Standard Quant By: Initial Calibration  
 Last ICal File: \\ChromNA\Savannah\ChromData\CMSD\20150813-22241.b\1DF13008.D  
 Column 1 : Restek RXi-5Sil MS ( 0.25 mm) Det: MS SCAN  
 Process Host: XAWRK008

First Level Reviewer: moorer Date: 14-Aug-2015 09:15:26

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
27 Pentachlorophenol_T	266	8.394	8.394	0.000	0	198278	NR	NR	
28 DFTPP									
29 Benzidine_T	184	9.687	9.687	0.000	0	586048	NR	NR	
31 4,4'-DDD	235	10.013	10.013	0.000	55	2301		NR	
32 4,4'-DDT	235	10.253	10.253	0.000	97	455141	NR	NR	

### QC Flag Legend

#### Processing Flags

NR - Missing Quant Standard

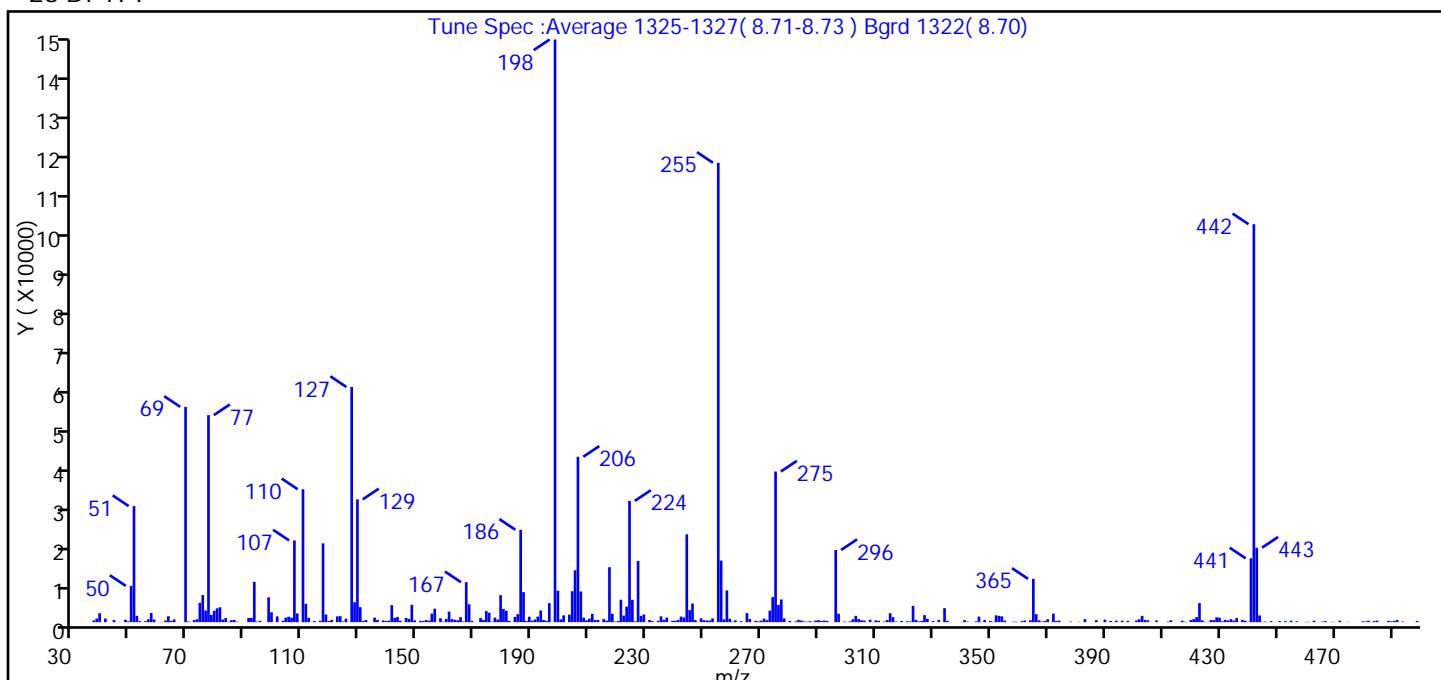
#### Reagents:

SM-LLTUNE\_00086 Amount Added: 1.00 Units: mL

## TestAmerica Savannah

Data File: \\ChromNA\\Savannah\\ChromData\\CMSD\\20150813-22241.b\\1DF13101.D  
 Injection Date: 13-Aug-2015 17:48:30 Instrument ID: CMSD  
 Lims ID: DFTPP  
 Client ID:  
 Operator ID: LIMS import ALS Bottle#: 1 Worklist Smp#: 1  
 Injection Vol: 2.0 ul Dil. Factor: 1.0000  
 Method: 8270\_New\_LLPAH\_CMSD Limit Group: 8270D\_LL\_PAH  
 Tune Method: DFTPP Method 525.2, BP 442

28 DFTPP



m/z	Ion Abundance Criteria	% Relative Abundance
442	base peak, or >90% of 198	100.0 (68.3)
51	10-80% of the base peak	29.2
68	<2% of mass 69	0.0 (0.0)
69	Present	54.1
70	<2% of mass 69	0.2 (0.3)
127	10-80% of the base peak	59.1
197	<2% of mass 198	0.0 (0.0)
198	base peak, or >50% of 442	146.4
199	5-9% of mass 198	7.9 (5.4)
275	10-60% of the base peak	37.9
365	>1% of the base peak	10.9
441	Present and < mass 443	16.0 (85.6)
443	15-24% of mass 442	18.7

Data File: \\ChromNA\Savannah\ChromData\CMSD\20150813-22241.b\1DF13101.D\8270\_New\_LLPAH\_CMSD.rslt  
 Injection Date: 13-Aug-2015 17:48:30  
 Spectrum: Tune Spec :Average 1325-1327( 8.71-8.73 ) Bgrd 1322( 8.70 )  
 Base Peak: 198.00  
 Minimum % Base Peak: 0  
 Number of Points: 347

m/z	Y	m/z	Y	m/z	Y	m/z	Y
37.00	421	151.00	354	249.00	966	361.00	244
38.00	921	152.00	268	250.00	499	362.00	406
39.00	2250	153.00	523	251.00	425	364.00	492
41.00	899	154.00	401	252.00	407	365.00	10922
44.00	528	155.00	2151	253.00	927	366.00	2012
46.00	61	156.00	3407	255.00	115848	367.00	459
48.00	633	158.00	990	256.00	15521	368.00	158
49.00	201	159.00	115	257.00	715	369.00	272
50.00	9138	160.00	821	258.00	8011	370.00	717
51.00	29272	161.00	2652	259.00	856	372.00	2172
52.00	1597	162.00	753	260.00	102	373.00	306
53.00	260	163.00	581	261.00	451	374.00	403
55.00	236	164.00	484	263.00	230	378.00	132
56.00	720	165.00	1256	265.00	2269	381.00	69
57.00	2313	166.00	149	266.00	775	383.00	745
58.00	676	167.00	10079	268.00	330	387.00	507
60.00	63	168.00	4506	269.00	206	390.00	645
62.00	418	169.00	331	270.00	380	392.00	281
63.00	1491	172.00	1049	271.00	883	393.00	54
64.00	293	173.00	559	272.00	491	394.00	349
65.00	686	174.00	2789	273.00	2900	395.00	7
69.00	54288	175.00	2373	274.00	6309	396.00	359
70.00	169	176.00	112	275.00	37992	398.00	316
71.00	4	177.00	1152	276.00	4336	401.00	442
72.00	522	178.00	655	277.00	5723	402.00	737
73.00	727	179.00	6787	278.00	954	403.00	1570
74.00	4866	180.00	3330	280.00	324	404.00	533
75.00	6829	181.00	2870	282.00	181	405.00	467
76.00	2927	182.00	327	283.00	568	408.00	430
77.00	52208	184.00	1314	284.00	402	412.00	118
78.00	1811	185.00	2022	285.00	178	413.00	438
79.00	2846	186.00	23296	286.00	113	417.00	375
80.00	3477	187.00	7582	287.00	238	418.00	110

Report Date: 14-Aug-2015 09:15:27

Chrom Revision: 2.2 23-Jul-2015 08:26:08

Data File:

\ChromNA\Savannah\ChromData\CMSD\20150813-22241.b\1DF13101.D\8270\_New\_LLPAH\_CMSD.rslt

Injection Date:

13-Aug-2015 17:48:30

Spectrum:

Tune Spec :Average 1325-1327( 8.71-8.73 ) Bgrd 1322( 8.70)

Base Peak:

198.00

Minimum % Base Peak: 0

Number of Points: 347

m/z	Y	m/z	Y	m/z	Y	m/z	Y
81.00	3750	188.00	304	288.00	72	420.00	533
82.00	665	189.00	1362	289.00	388	421.00	759
83.00	1036	190.00	378	290.00	509	422.00	1265
84.00	97	191.00	663	291.00	272	423.00	4794
85.00	507	192.00	1403	292.00	396	424.00	436
86.00	570	193.00	2933	293.00	310	425.00	67
87.00	124	194.00	540	296.00	18192	426.00	73
91.00	1043	195.00	340	297.00	2122	427.00	527
92.00	1081	196.00	4788	299.00	164	428.00	528
93.00	10154	198.00	146944	300.00	38	429.00	1212
94.00	141	199.00	7919	301.00	200	430.00	1121
95.00	328	200.00	690	302.00	723	431.00	214
98.00	6242	201.00	1717	303.00	1574	432.00	566
99.00	2501	203.00	1892	304.00	773	433.00	440
101.00	1450	204.00	7799	305.00	489	434.00	748
103.00	356	205.00	13088	306.00	369	435.00	416
104.00	1132	206.00	41704	308.00	618	436.00	1033
105.00	1365	207.00	7742	309.00	58	438.00	555
106.00	1119	208.00	1129	310.00	434	439.00	354
107.00	20608	209.00	451	311.00	329	440.00	69
108.00	2199	210.00	879	313.00	146	441.00	16088
109.00	9	211.00	2107	314.00	518	442.00	100360
110.00	33520	212.00	516	315.00	2246	443.00	18784
111.00	4607	213.00	543	316.00	1257	444.00	1706
112.00	1095	215.00	761	317.00	146	445.00	80
114.00	281	216.00	367	319.00	294	446.00	137
116.00	372	217.00	13857	321.00	215	447.00	25
117.00	19864	218.00	2121	322.00	167	448.00	260
118.00	1924	219.00	144	323.00	4091	451.00	264
119.00	277	220.00	271	324.00	578	453.00	238
120.00	577	221.00	5643	325.00	191	454.00	33
122.00	1448	222.00	1650	326.00	307	455.00	379
123.00	1508	223.00	3908	327.00	1769	457.00	205
124.00	171	224.00	30584	328.00	833	460.00	56

Report Date: 14-Aug-2015 09:15:27

Chrom Revision: 2.2 23-Jul-2015 08:26:08

Data File:

\\\ChromNA\Savannah\ChromData\CMSD\20150813-22241.b\1DF13101.D\8270\_New\_LLPAH\_CMSD.rslt

Injection Date:

13-Aug-2015 17:48:30

Spectrum:

Tune Spec :Average 1325-1327( 8.71-8.73 ) Bgrd 1322( 8.70)

Base Peak:

198.00

Minimum % Base Peak: 0

Number of Points: 347

m/z	Y	m/z	Y	m/z	Y	m/z	Y
125.00	867	225.00	5608	330.00	259	461.00	83
127.00	59312	226.00	192	332.00	553	463.00	365
128.00	5025	227.00	15421	334.00	3532	466.00	128
129.00	30968	228.00	1582	335.00	315	467.00	244
130.00	3774	229.00	1932	340.00	61	469.00	80
131.00	289	231.00	544	341.00	510	470.00	66
132.00	519	232.00	240	342.00	129	472.00	371
135.00	1139	234.00	342	345.00	198	475.00	72
136.00	561	235.00	1462	346.00	1393	480.00	201
138.00	407	236.00	581	347.00	54	481.00	179
139.00	272	237.00	1136	348.00	528	482.00	351
140.00	376	239.00	320	350.00	289	484.00	276
141.00	4285	240.00	341	351.00	81	485.00	371
142.00	1062	241.00	534	352.00	1715	489.00	294
143.00	1318	242.00	1398	353.00	1581	490.00	200
144.00	337	243.00	1192	354.00	1462	491.00	288
146.00	1074	244.00	22144	355.00	391	492.00	571
147.00	818	245.00	3023	358.00	109	494.00	140
148.00	4367	246.00	4695	359.00	101	499.00	320
149.00	438	247.00	518	360.00	27		

## TestAmerica Savannah

Data File: \\ChromNA\\Savannah\\ChromData\\CMSD\\20150813-22241.b\\1DF13101.D  
Injection Date: 13-Aug-2015 17:48:30 Instrument ID: CMSD  
Lims ID: DFTPP  
Client ID:  
Operator ID: LIMS import ALS Bottle#: 1 Worklist Smp#: 1  
Injection Vol: 2.0 ul Dil. Factor: 1.0000  
Method: 8270\_New\_LLPAH\_CMSD Limit Group: 8270D\_LL\_PAH  
32 4,4'-DDT, Detector: MS SCAN

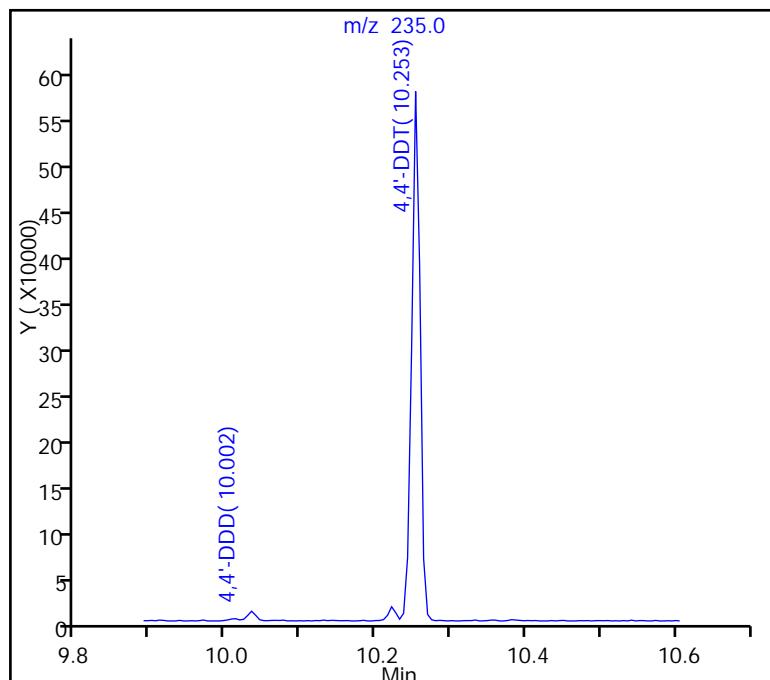
SW-846 Method

%Breakdown =  
(Area Breakdown Cpnds/  
Total Area Breakdown Cpnds) \* 100

32 4,4'-DDT, Area = 455141  
31 4,4'-DDD, Area = 2301  
30 4,4'-DDE, Area = 0

%Breakdown: 0.50%, Max Limit: 20.00%

Passed



## TestAmerica Savannah

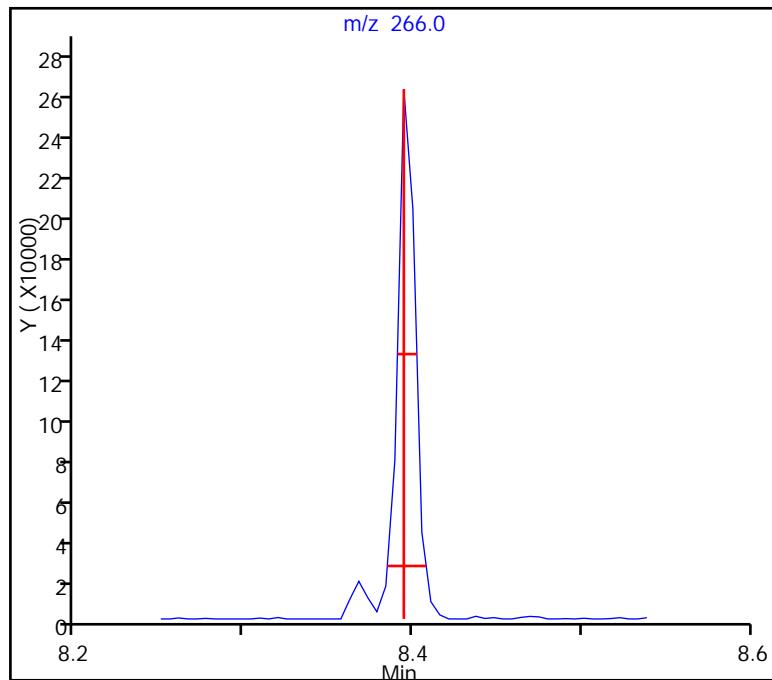
Data File: \\ChromNA\\Savannah\\ChromData\\CMSD\\20150813-22241.b\\1DF13101.D  
Injection Date: 13-Aug-2015 17:48:30 Instrument ID: CMSD  
Lims ID: DFTPP  
Client ID:  
Operator ID: LIMS import ALS Bottle#: 1 Worklist Smp#: 1  
Injection Vol: 2.0 ul Dil. Factor: 1.0000  
Method: 8270\_New\_LLPAH\_CMSD Limit Group: 8270D\_LL\_PAH

27 Pentachlorophenol\_T, Detector: MS SCAN

Peak Tailing Factor =  
BackWidth/FrontWidth @ 10% Peak Height

Back Width = 0.013 (min.)  
Front Width = 0.010 (min.)

Tailing Factor = 1.4, Max. Tailing < 2.00  
Passed



## TestAmerica Savannah

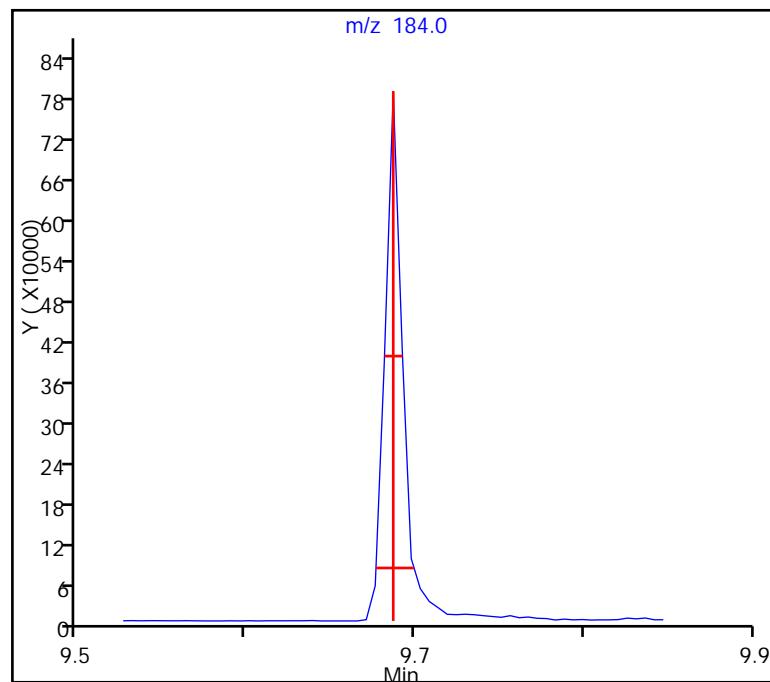
Data File: \\ChromNA\\Savannah\\ChromData\\CMSD\\20150813-22241.b\\1DF13101.D  
Injection Date: 13-Aug-2015 17:48:30 Instrument ID: CMSD  
Lims ID: DFTPP  
Client ID:  
Operator ID: LIMS import ALS Bottle#: 1 Worklist Smp#: 1  
Injection Vol: 2.0 ul Dil. Factor: 1.0000  
Method: 8270\_New\_LLPAH\_CMSD Limit Group: 8270D\_LL\_PAH

29 Benzidine\_T, Detector: MS SCAN

Peak Tailing Factor =  
BackWidth/FrontWidth @ 10% Peak Height

Back Width = 0.012 (min.)  
Front Width = 0.010 (min.)

Tailing Factor = 1.2, Max. Tailing < 2.00  
Passed



TestAmerica Savannah  
Target Compound Quantitation Report

Data File: \\ChromNA\Savannah\ChromData\CMSD\20150818-22356.b\1DF18001.D  
 Lims ID: DFTPP  
 Client ID:  
 Sample Type: DFTPP  
 Inject. Date: 18-Aug-2015 12:12:30 ALS Bottle#: 1 Worklist Smp#: 1  
 Injection Vol: 2.0 ul Dil. Factor: 1.0000  
 Sample Info: DFTPP  
 Misc. Info.: 680-0022356-001  
 Operator ID: LIMS import Instrument ID: CMSD  
 Method: \\ChromNA\Savannah\ChromData\CMSD\20150818-22356.b\8270\_New\_LLPAH\_CMSD.m  
 Limit Group: 8270D\_LL\_PAH  
 Last Update: 19-Aug-2015 12:01:31 Calib Date: 13-Aug-2015 21:10:30  
 Integrator: RTE ID Type: Deconvolution ID  
 Quant Method: Internal Standard Quant By: Initial Calibration  
 Last ICal File: \\ChromNA\Savannah\ChromData\CMSD\20150813-22241.b\1DF13008.D  
 Column 1 : Restek RXi-5Sil MS ( 0.25 mm) Det: MS SCAN  
 Process Host: XAWRK003

First Level Reviewer: waldorfj Date: 18-Aug-2015 14:37:02

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
27 Pentachlorophenol_T	266	8.347	8.347	0.000	0	263755	NR	NR	
28 DFTPP									
29 Benzidine_T	184	9.618	9.618	0.000	0	633593	NR	NR	
30 4,4'-DDE	246	9.650	9.650	0.000	1	1116		NR	
31 4,4'-DDD	235	9.955	9.955	0.000	89	13437		NR	
32 4,4'-DDT	235	10.174	10.174	0.000	97	524487	NR	NR	

### QC Flag Legend

Processing Flags

NR - Missing Quant Standard

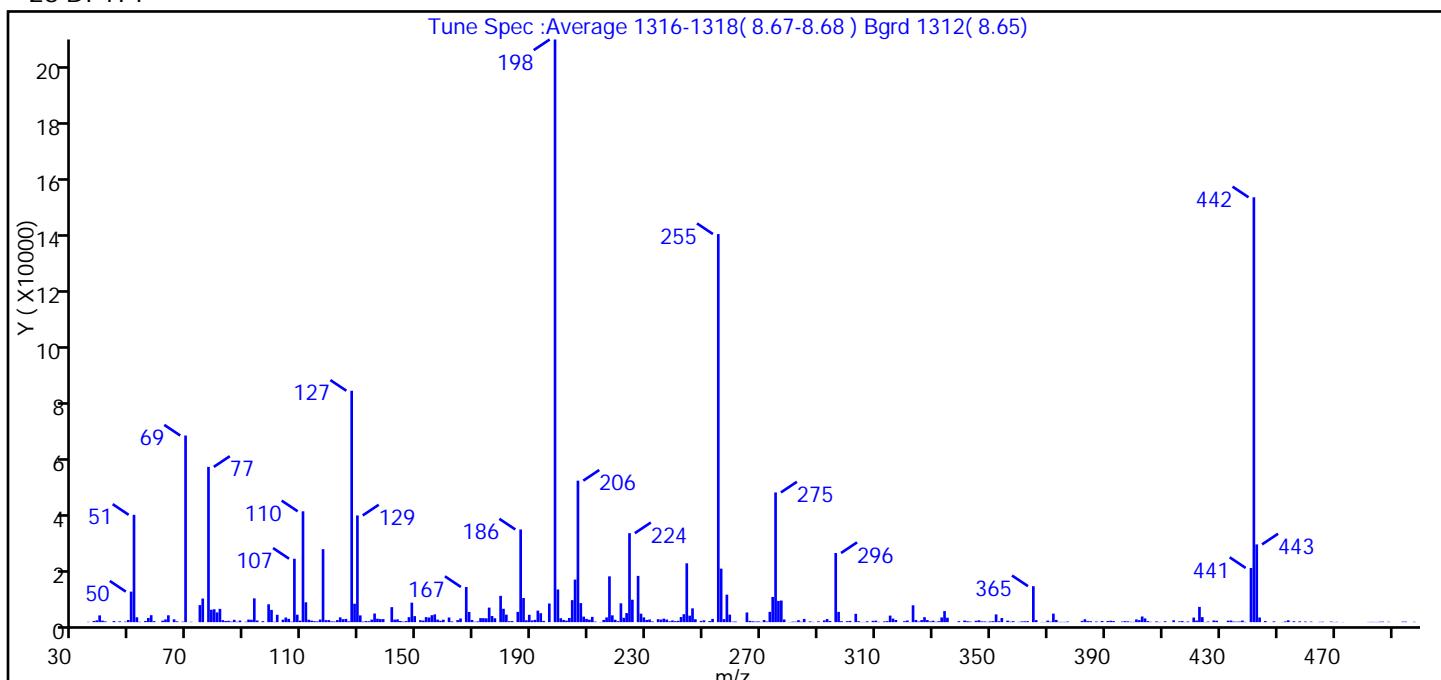
### Reagents:

SM-LLTUNE\_00086 Amount Added: 1.00 Units: mL

## TestAmerica Savannah

Data File: \\ChromNA\\Savannah\\ChromData\\CMSD\\20150818-22356.b\\1DF18001.D  
 Injection Date: 18-Aug-2015 12:12:30 Instrument ID: CMSD  
 Lims ID: DFTPP  
 Client ID:  
 Operator ID: LIMS import ALS Bottle#: 1 Worklist Smp#: 1  
 Injection Vol: 2.0 ul Dil. Factor: 1.0000  
 Method: 8270\_New\_LLPAH\_CMSD Limit Group: 8270D\_LL\_PAH  
 Tune Method: DFTPP Method 525.2, BP 442

28 DFTPP



m/z	Ion Abundance Criteria	% Relative Abundance
442	base peak, or >50% of 198	100.0 (72.9)
51	10-80% of the base peak	25.3
68	<2% of mass 69	0.1 (0.2)
69	Present	43.9
70	<2% of mass 69	0.0 (0.0)
127	10-80% of the base peak	54.5
197	<2% of mass 198	0.0 (0.0)
198	base peak, or >50% of 442	137.1
199	5-9% of mass 198	7.7 (5.6)
275	10-60% of the base peak	30.5
365	>1% of the base peak	8.5
441	Present and < mass 443	12.8 (69.7)
443	15-24% of mass 442	18.3

Data File: \\ChromNA\Savannah\ChromData\CMSD\20150818-22356.b\1DF18001.D\8270\_New\_LLPAH\_CMSD.rslt  
 Injection Date: 18-Aug-2015 12:12:30  
 Spectrum: Tune Spec :Average 1316-1318( 8.67-8.68 ) Bgrd 1312( 8.65)  
 Base Peak: 198.00  
 Minimum % Base Peak: 0  
 Number of Points: 363

m/z	Y	m/z	Y	m/z	Y	m/z	Y
35.00	117	145.00	190	247.00	1021	361.00	254
37.00	407	146.00	371	249.00	427	362.00	289
38.00	633	147.00	1745	250.00	638	363.00	345
39.00	2382	148.00	6850	252.00	377	365.00	12643
40.00	530	149.00	2110	253.00	1130	366.00	709
41.00	260	151.00	687	255.00	136448	368.00	78
44.00	389	152.00	557	256.00	18808	369.00	59
46.00	276	153.00	1768	257.00	1061	370.00	540
48.00	181	154.00	1630	258.00	9655	371.00	193
49.00	751	155.00	2433	259.00	2641	372.00	2990
50.00	10728	156.00	2728	260.00	163	373.00	775
51.00	37736	157.00	886	261.00	222	374.00	109
52.00	1713	158.00	478	265.00	3392	375.00	100
53.00	112	159.00	863	266.00	441	376.00	99
55.00	410	161.00	1642	267.00	307	377.00	203
56.00	1471	162.00	262	268.00	208	382.00	436
57.00	2447	164.00	719	269.00	265	383.00	1018
58.00	352	165.00	1302	270.00	75	384.00	373
61.00	512	167.00	12361	271.00	753	385.00	336
62.00	951	168.00	3592	272.00	217	387.00	233
63.00	2411	169.00	774	273.00	3630	389.00	407
65.00	986	170.00	129	274.00	8854	391.00	395
66.00	292	171.00	258	275.00	45600	392.00	494
68.00	162	172.00	1410	276.00	7464	393.00	377
69.00	65616	173.00	1418	277.00	7599	396.00	208
70.00	26	174.00	1341	278.00	950	397.00	349
71.00	121	175.00	5113	280.00	52	398.00	286
74.00	5990	176.00	2157	281.00	184	399.00	123
75.00	8292	177.00	1364	282.00	169	400.00	112
77.00	54592	179.00	9235	283.00	686	401.00	961
78.00	4366	180.00	4700	284.00	155	402.00	705
79.00	4528	181.00	2633	285.00	1134	403.00	1985
80.00	3412	182.00	329	287.00	265	404.00	1308

Report Date: 19-Aug-2015 12:01:32

Chrom Revision: 2.2 23-Jul-2015 08:26:08

Data File:

\ChromNA\Savannah\ChromData\CMSD\20150818-22356.b\1DF18001.D\8270\_New\_LLPAH\_CMSD.rslt

Injection Date:

18-Aug-2015 12:12:30

Spectrum:

Tune Spec :Average 1316-1318( 8.67-8.68 ) Bgrd 1312( 8.65)

Base Peak:

198.00

Minimum % Base Peak: 0

Number of Points: 363

m/z	Y	m/z	Y	m/z	Y	m/z	Y
81.00	4674	183.00	381	288.00	93	405.00	360
82.00	703	185.00	3611	290.00	274	406.00	114
83.00	397	186.00	32584	292.00	617	408.00	261
84.00	472	187.00	8477	293.00	1093	409.00	75
85.00	207	188.00	655	294.00	398	411.00	321
86.00	822	189.00	2579	296.00	24304	414.00	634
87.00	125	190.00	605	297.00	3605	415.00	10
88.00	552	191.00	791	298.00	350	416.00	270
90.00	130	192.00	4039	300.00	338	417.00	366
91.00	907	193.00	3144	301.00	442	418.00	65
92.00	839	194.00	434	302.00	24	419.00	244
93.00	8357	196.00	6556	303.00	2926	421.00	1608
94.00	580	198.00	204864	304.00	326	422.00	550
96.00	352	199.00	11486	305.00	71	423.00	5370
98.00	6277	200.00	1380	306.00	52	424.00	1759
99.00	4305	201.00	770	307.00	309	425.00	50
100.00	140	202.00	539	309.00	443	426.00	217
101.00	2592	203.00	1472	310.00	530	428.00	585
103.00	864	204.00	7740	311.00	109	429.00	492
104.00	1629	205.00	14969	313.00	267	432.00	19
105.00	1174	206.00	49744	314.00	341	433.00	519
106.00	184	207.00	6698	315.00	2303	434.00	551
107.00	22296	208.00	1932	316.00	1244	435.00	211
108.00	2619	209.00	1151	317.00	771	436.00	160
109.00	533	210.00	859	320.00	333	437.00	214
110.00	38976	211.00	1846	321.00	584	438.00	554
111.00	6985	212.00	200	322.00	48	439.00	85
112.00	844	214.00	64	323.00	5929	441.00	19048
113.00	537	215.00	777	324.00	746	442.00	149376
114.00	344	216.00	1668	325.00	225	443.00	27336
115.00	266	217.00	16110	326.00	727	444.00	1641
116.00	913	218.00	2390	327.00	1746	446.00	385
117.00	25656	219.00	832	328.00	733	449.00	275
118.00	705	220.00	347	329.00	281	452.00	76

Report Date: 19-Aug-2015 12:01:32

Chrom Revision: 2.2 23-Jul-2015 08:26:08

Data File:

\ChromNA\Savannah\ChromData\CMSD\20150818-22356.b\1DF18001.D\8270\_New\_LLPAH\_CMSD.rslt

Injection Date:

18-Aug-2015 12:12:30

Spectrum:

Tune Spec :Average 1316-1318( 8.67-8.68 ) Bgrd 1312( 8.65)

Base Peak:

198.00

Minimum % Base Peak: 0

Number of Points: 363

m/z	Y	m/z	Y	m/z	Y	m/z	Y
119.00	717	221.00	6622	330.00	501	453.00	252
120.00	280	222.00	1528	331.00	135	454.00	657
121.00	227	223.00	3185	332.00	321	456.00	313
122.00	730	224.00	31280	333.00	1643	458.00	284
123.00	1680	225.00	7883	334.00	3887	460.00	219
124.00	1044	227.00	16263	335.00	1557	462.00	186
125.00	1138	228.00	2983	339.00	335	465.00	107
126.00	298	229.00	1680	341.00	552	466.00	148
127.00	81360	230.00	778	342.00	327	469.00	190
128.00	6467	231.00	946	343.00	192	470.00	65
129.00	37520	232.00	249	345.00	470	471.00	115
130.00	2374	234.00	1052	346.00	667	473.00	53
131.00	193	235.00	911	347.00	272	482.00	74
132.00	368	236.00	1236	348.00	236	483.00	107
133.00	304	237.00	903	349.00	126	484.00	81
134.00	895	238.00	296	350.00	267	485.00	78
135.00	3028	239.00	590	351.00	322	486.00	151
136.00	1211	240.00	340	352.00	2725	487.00	181
137.00	1060	241.00	460	353.00	315	489.00	139
138.00	1075	242.00	1806	354.00	1463	490.00	13
141.00	5275	243.00	2787	356.00	536	494.00	176
142.00	890	244.00	20688	357.00	175	495.00	193
143.00	980	245.00	2275	358.00	340	498.00	129
144.00	406	246.00	4857	360.00	92		

## TestAmerica Savannah

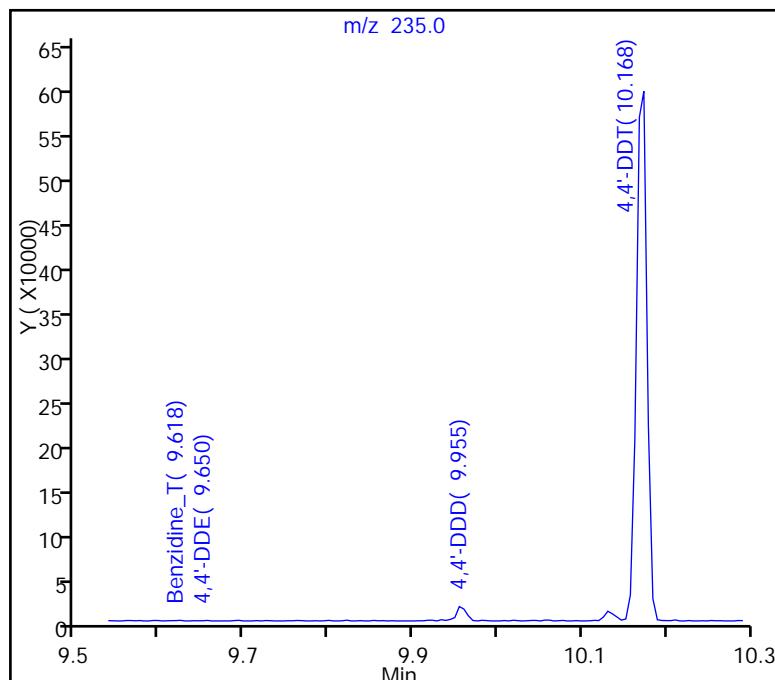
Data File: \\ChromNA\\Savannah\\ChromData\\CMSD\\20150818-22356.b\\1DF18001.D  
Injection Date: 18-Aug-2015 12:12:30 Instrument ID: CMSD  
Lims ID: DFTPP  
Client ID:  
Operator ID: LIMS import ALS Bottle#: 1 Worklist Smp#: 1  
Injection Vol: 2.0 ul Dil. Factor: 1.0000  
Method: 8270\_New\_LLPAH\_CMSD Limit Group: 8270D\_LL\_PAH  
32 4,4'-DDT, Detector: MS SCAN

SW-846 Method

%Breakdown =  
(Area Breakdown Cpnds/  
Total Area Breakdown Cpnds) \* 100

32 4,4'-DDT, Area = 524487  
31 4,4'-DDD, Area = 13437  
30 4,4'-DDE, Area = 1116

%Breakdown: 2.70%, Max Limit: 20.00%  
Passed



## TestAmerica Savannah

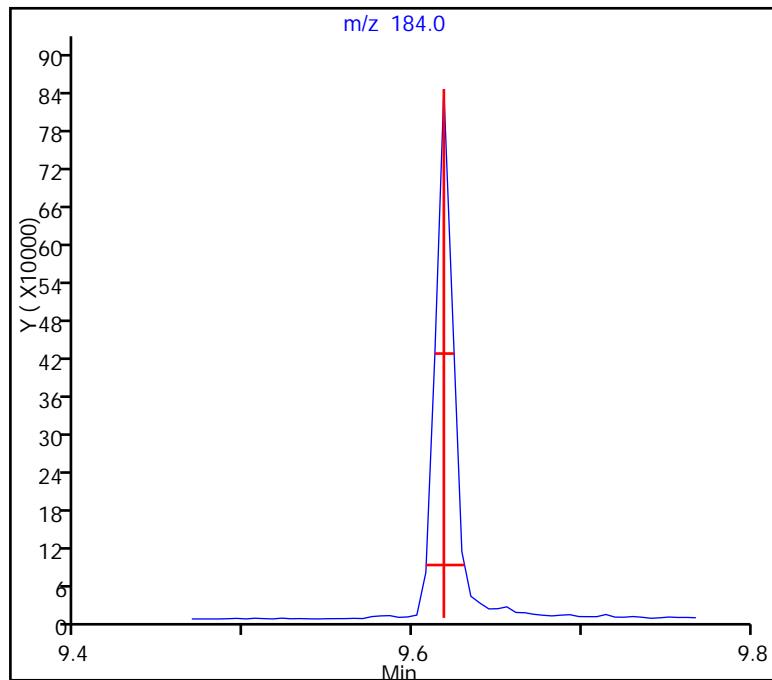
Data File: \\ChromNA\\Savannah\\ChromData\\CMSD\\20150818-22356.b\\1DF18001.D  
Injection Date: 18-Aug-2015 12:12:30 Instrument ID: CMSD  
Lims ID: DFTPP  
Client ID:  
Operator ID: LIMS import ALS Bottle#: 1 Worklist Smp#: 1  
Injection Vol: 2.0 ul Dil. Factor: 1.0000  
Method: 8270\_New\_LLPAH\_CMSD Limit Group: 8270D\_LL\_PAH

29 Benzidine\_T, Detector: MS SCAN

Peak Tailing Factor =  
BackWidth/FrontWidth @ 10% Peak Height

Back Width = 0.012 (min.)  
Front Width = 0.011 (min.)

Tailing Factor = 1.2, Max. Tailing < 2.00  
Passed



## TestAmerica Savannah

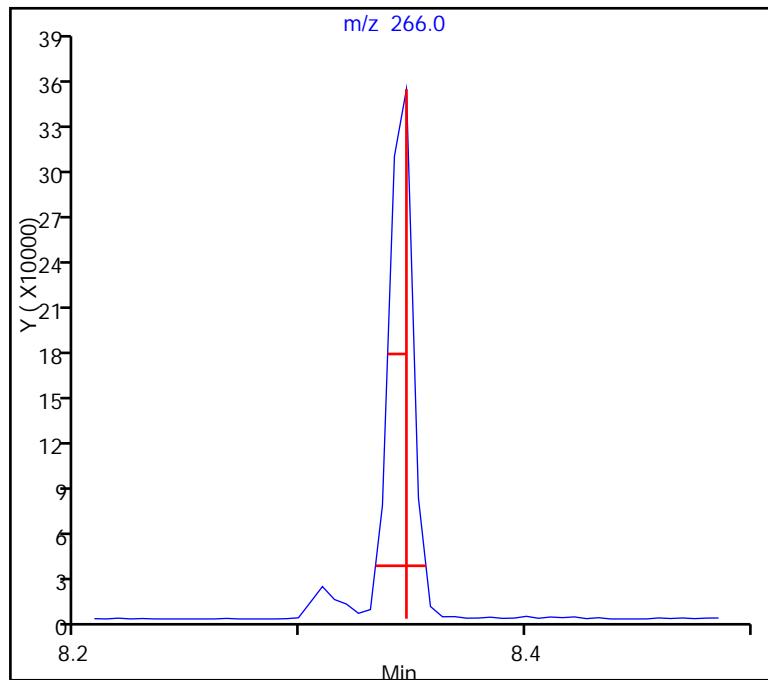
Data File: \\ChromNA\\Savannah\\ChromData\\CMSD\\20150818-22356.b\\1DF18001.D  
Injection Date: 18-Aug-2015 12:12:30 Instrument ID: CMSD  
Lims ID: DFTPP  
Client ID:  
Operator ID: LIMS import ALS Bottle#: 1 Worklist Smp#: 1  
Injection Vol: 2.0 ul Dil. Factor: 1.0000  
Method: 8270\_New\_LLPAH\_CMSD Limit Group: 8270D\_LL\_PAH

27 Pentachlorophenol\_T, Detector: MS SCAN

Peak Tailing Factor =  
BackWidth/FrontWidth @ 10% Peak Height

Back Width = 0.009 (min.)  
Front Width = 0.014 (min.)

Tailing Factor = 0.6, Max. Tailing < 2.00  
Passed



TestAmerica Savannah  
Target Compound Quantitation Report

Data File: \\ChromNA\Savannah\ChromData\CMSK\20150813-22239.b\1KF13001.D  
 Lims ID: DFTPP  
 Client ID:  
 Sample Type: DFTPP  
 Inject. Date: 13-Aug-2015 17:06:30 ALS Bottle#: 1 Worklist Smp#: 1  
 Injection Vol: 2.0 ul Dil. Factor: 1.0000  
 Sample Info: DFTPP  
 Misc. Info.: 680-0022239-001  
 Operator ID: LIMS import Instrument ID: CMSK  
 Method: \\ChromNA\Savannah\ChromData\CMSK\20150813-22239.b\8270\_LLPAH\_CMSK.m  
 Limit Group: 8270D\_LL\_PAH  
 Last Update: 14-Aug-2015 10:58:34 Calib Date: 13-Aug-2015 20:12:30  
 Integrator: RTE ID Type: Deconvolution ID  
 Quant Method: Internal Standard Quant By: Initial Calibration  
 Last ICal File: \\ChromNA\Savannah\ChromData\CMSK\20150813-22239.b\1KF13008.D  
 Column 1 : Restek RXi-5Sil MS ( 0.25 mm) Det: MS SCAN  
 Process Host: XAWRK008

First Level Reviewer: moorer Date: 14-Aug-2015 10:36:38

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
27 Pentachlorophenol_T	266	7.462	7.462	0.000	0	37948	NR	NR	
28 DFTPP									
29 Benzidine_T	184	9.131	9.131	0.000	0	167490	NR	NR	
30 4,4'-DDE	246	9.348	9.348	0.000	84	272		NR	
31 4,4'-DDD	235	9.701	9.701	0.000	98	4427		NR	
32 4,4'-DDT	235	10.018	10.018	0.000	99	90497	NR	NR	

### QC Flag Legend

Processing Flags

NR - Missing Quant Standard

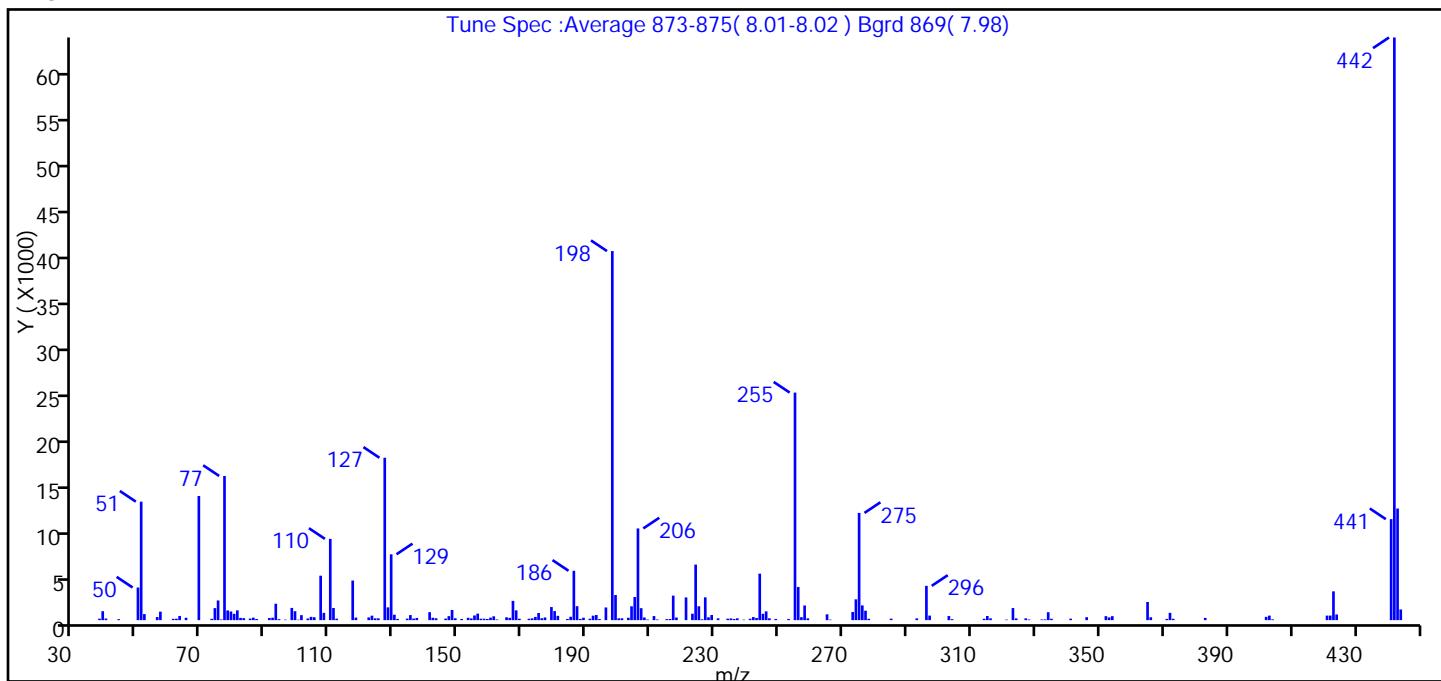
### Reagents:

SM-LLTUNE\_00086 Amount Added: 1.00 Units: mL

## TestAmerica Savannah

Data File: \\ChromNA\\Savannah\\ChromData\\CMSK\\20150813-22239.b\\1KF13001.D  
 Injection Date: 13-Aug-2015 17:06:30 Instrument ID: CMSK  
 Lims ID: DFTPP  
 Client ID:  
 Operator ID: LIMS import ALS Bottle#: 1 Worklist Smp#: 1  
 Injection Vol: 2.0 ul Dil. Factor: 1.0000  
 Method: 8270\_LLPAH\_CMSK Limit Group: 8270D\_LL\_PAH  
 Tune Method: DFTPP Method 525.2, BP 442

28 DFTPP



m/z	Ion Abundance Criteria	% Relative Abundance
442	base peak, or >50% of 198	100.0 (157.9)
51	10-80% of the base peak	20.3
68	<2% of mass 69	0.0 (0.0)
69	Present	21.3
70	<2% of mass 69	0.0 (0.0)
127	10-80% of the base peak	27.9
197	<2% of mass 198	0.0 (0.0)
198	base peak, or >50% of 442	63.3
199	5-9% of mass 198	4.3 (6.8)
275	10-60% of the base peak	18.4
365	>1% of the base peak	3.1
441	Present and < mass 443	17.3 (90.5)
443	15-24% of mass 442	19.2

Data File: \\ChromNA\Savannah\ChromData\CMSK\20150813-22239.b\1KF13001.D\8270\_LLPAH\_CMSK.rslt\spectr  
 Injection Date: 13-Aug-2015 17:06:30  
 Spectrum: Tune Spec :Average 873-875( 8.01-8.02 ) Bgrd 869( 7.98)  
 Base Peak: 442.00  
 Minimum % Base Peak: 0  
 Number of Points: 196

m/z	Y	m/z	Y	m/z	Y	m/z	Y
38.00	160	124.00	198	191.00	155	259.00	197
39.00	976	125.00	197	192.00	487	265.00	636
40.00	176	127.00	17680	193.00	557	266.00	56
44.00	111	128.00	1390	194.00	113	273.00	885
50.00	3551	129.00	7170	196.00	1381	274.00	2266
51.00	12902	130.00	588	198.00	40184	275.00	11673
52.00	658	131.00	136	199.00	2734	276.00	1604
56.00	336	134.00	165	200.00	196	277.00	1027
57.00	925	135.00	553	201.00	202	278.00	148
61.00	142	136.00	169	203.00	259	285.00	165
62.00	154	137.00	237	204.00	1508	293.00	191
63.00	457	141.00	867	205.00	2520	296.00	3734
65.00	260	142.00	258	206.00	9986	297.00	496
69.00	13517	143.00	205	207.00	1302	303.00	449
73.00	141	146.00	168	208.00	290	304.00	112
74.00	1309	147.00	436	209.00	66	314.00	147
75.00	2145	148.00	1109	211.00	443	315.00	450
76.00	69	149.00	208	212.00	73	316.00	198
77.00	15699	151.00	125	215.00	113	321.00	60
78.00	1055	153.00	257	216.00	121	323.00	1316
79.00	941	154.00	186	217.00	2667	324.00	191
80.00	691	155.00	510	218.00	283	327.00	198
81.00	1065	156.00	711	221.00	2474	328.00	69
82.00	246	157.00	154	223.00	700	332.00	73
83.00	216	158.00	155	224.00	6048	333.00	82
85.00	175	159.00	124	225.00	1509	334.00	865
86.00	273	160.00	270	226.00	94	335.00	151
87.00	127	161.00	420	227.00	2483	341.00	162
91.00	236	162.00	71	228.00	313	346.00	323
92.00	267	165.00	313	229.00	562	352.00	435
93.00	1787	166.00	251	231.00	197	353.00	298
94.00	107	167.00	2098	234.00	160	354.00	435
96.00	55	168.00	1066	235.00	187	365.00	1975

Report Date: 14-Aug-2015 10:58:35

Chrom Revision: 2.2 23-Jul-2015 08:26:08

Data File:

\ChromNA\Savannah\ChromData\CMSK\20150813-22239.b\1KF13001.D\8270\_LLPAH\_CMSK.rslt\spect

Injection Date:

13-Aug-2015 17:06:30

Spectrum:

Tune Spec :Average 873-875( 8.01-8.02 ) Bgrd 869( 7.98)

Base Peak:

442.00

Minimum % Base Peak: 0

Number of Points: 196

m/z	Y	m/z	Y	m/z	Y	m/z	Y
98.00	1330	169.00	153	236.00	127	366.00	314
99.00	970	172.00	154	237.00	201	371.00	134
100.00	50	173.00	193	239.00	52	372.00	795
101.00	548	174.00	352	241.00	152	373.00	146
103.00	180	175.00	779	242.00	333	383.00	245
104.00	358	176.00	210	243.00	239	402.00	357
105.00	317	177.00	295	244.00	5062	403.00	493
107.00	4839	179.00	1425	245.00	688	404.00	90
108.00	793	180.00	986	246.00	955	421.00	492
110.00	8848	181.00	469	247.00	200	422.00	500
111.00	1319	184.00	128	249.00	128	423.00	3136
112.00	159	185.00	369	253.00	130	424.00	619
117.00	4312	186.00	5375	255.00	24776	441.00	10995
118.00	279	187.00	1519	256.00	3613	442.00	63440
122.00	296	188.00	136	257.00	323	443.00	12154
123.00	487	189.00	264	258.00	1595	444.00	1161

## TestAmerica Savannah

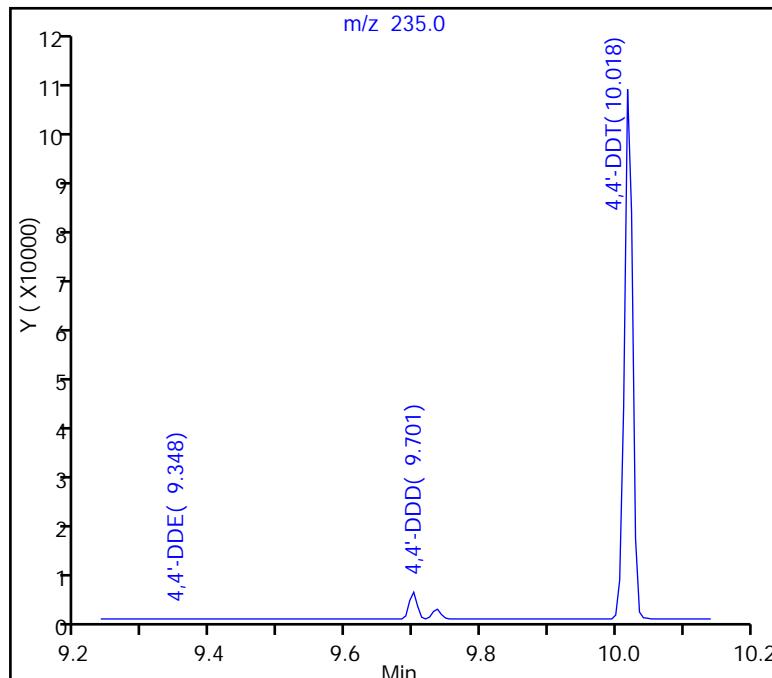
Data File: \\ChromNA\\Savannah\\ChromData\CMSK\\20150813-22239.b\\1KF13001.D  
Injection Date: 13-Aug-2015 17:06:30 Instrument ID: CMSK  
Lims ID: DFTPP  
Client ID:  
Operator ID: LIMS import ALS Bottle#: 1 Worklist Smp#: 1  
Injection Vol: 2.0 ul Dil. Factor: 1.0000  
Method: 8270\_LLPAH\_CMSK Limit Group: 8270D\_LL\_PAH  
32 4,4'-DDT, Detector: MS SCAN

SW-846 Method

%Breakdown =  
(Area Breakdown Cpnds/  
Total Area Breakdown Cpnds) \* 100

32 4,4'-DDT, Area = 90497  
31 4,4'-DDD, Area = 4427  
30 4,4'-DDE, Area = 272

%Breakdown: 4.94%, Max Limit: 20.00%  
Passed



## TestAmerica Savannah

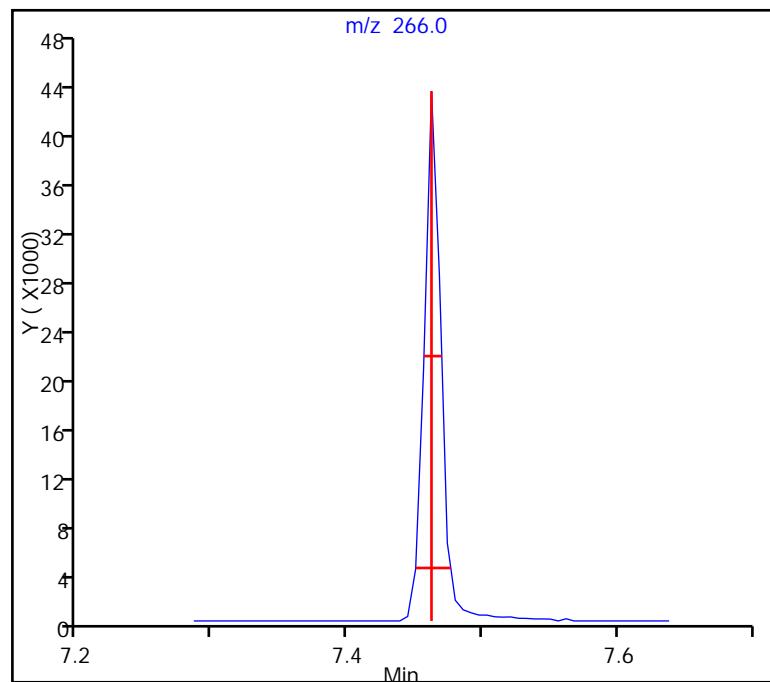
Data File: \\ChromNA\\Savannah\\ChromData\\CMSK\\20150813-22239.b\\1KF13001.D  
Injection Date: 13-Aug-2015 17:06:30 Instrument ID: CMSK  
Lims ID: DFTPP  
Client ID:  
Operator ID: LIMS import ALS Bottle#: 1 Worklist Smp#: 1  
Injection Vol: 2.0 ul Dil. Factor: 1.0000  
Method: 8270\_LLPAH\_CMSK Limit Group: 8270D\_LL\_PAH

27 Pentachlorophenol\_T, Detector: MS SCAN

Peak Tailing Factor =  
BackWidth/FrontWidth @ 10% Peak Height

Back Width = 0.014 (min.)  
Front Width = 0.012 (min.)

Tailing Factor = 1.2, Max. Tailing < 2.00  
Passed



## TestAmerica Savannah

Data File: \\ChromNA\\Savannah\\ChromData\\CMSK\\20150813-22239.b\\1KF13001.D  
Injection Date: 13-Aug-2015 17:06:30 Instrument ID: CMSK  
Lims ID: DFTPP  
Client ID:  
Operator ID: LIMS import ALS Bottle#: 1 Worklist Smp#: 1  
Injection Vol: 2.0 ul Dil. Factor: 1.0000  
Method: 8270\_LLPAH\_CMSK Limit Group: 8270D\_LL\_PAH

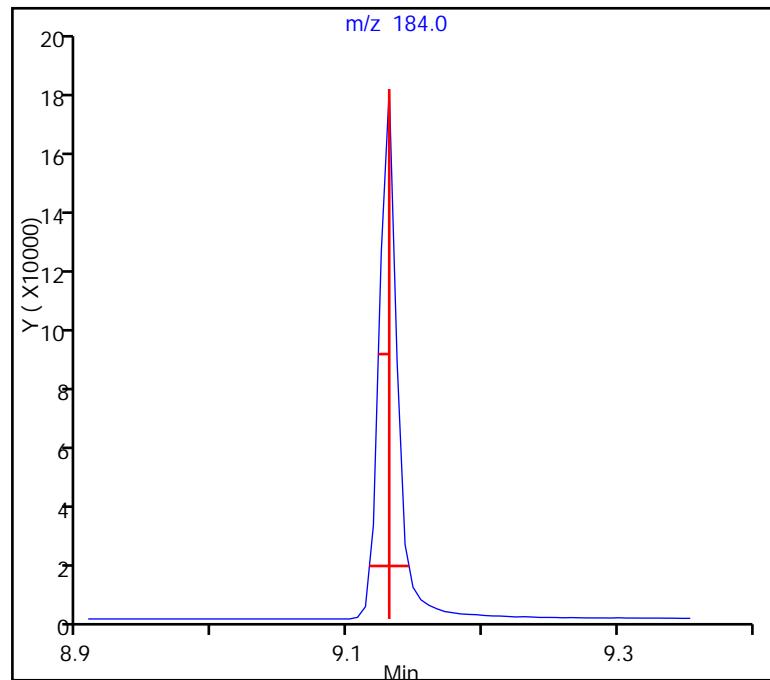
29 Benzidine\_T, Detector: MS SCAN

Peak Tailing Factor =  
BackWidth/FrontWidth @ 10% Peak Height

Back Width = 0.015 (min.)  
Front Width = 0.015 (min.)

Tailing Factor = 1.0, Max. Tailing < 2.00  
Passed

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TestAmerica Savannah  
Target Compound Quantitation Report

Data File: \\ChromNA\Savannah\ChromData\CMSK\20150819-22399.b\1KH19001.D  
 Lims ID: DFTPP  
 Client ID:  
 Sample Type: DFTPP  
 Inject. Date: 19-Aug-2015 11:48:30 ALS Bottle#: 1 Worklist Smp#: 1  
 Injection Vol: 2.0 ul Dil. Factor: 1.0000  
 Sample Info: DFTPP  
 Misc. Info.: 680-0022399-001  
 Operator ID: LIMS import Instrument ID: CMSK  
 Method: \\ChromNA\Savannah\ChromData\CMSK\20150819-22399.b\8270\_LLPAH\_CMSK.m  
 Limit Group: 8270D\_LL\_PAH  
 Last Update: 20-Aug-2015 10:43:49 Calib Date: 13-Aug-2015 20:12:30  
 Integrator: RTE ID Type: Deconvolution ID  
 Quant Method: Internal Standard Quant By: Initial Calibration  
 Last ICal File: \\ChromNA\Savannah\ChromData\CMSK\20150813-22239.b\1KF13008.D  
 Column 1 : Restek RXi-5Sil MS ( 0.25 mm) Det: MS SCAN  
 Process Host: XAWRK001

First Level Reviewer: moorer Date: 20-Aug-2015 10:43:49

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
27 Pentachlorophenol_T	266	7.333	7.333	0.000	0	13676	NR	NR	
28 DFTPP									
29 Benzidine_T	184	9.002	9.002	0.000	0	82381	NR	NR	
30 4,4'-DDE	246	9.225	9.225	0.000	1	192		NR	
31 4,4'-DDD	235	9.572	9.572	0.000	98	7076		NR	
32 4,4'-DDT	235	9.883	9.883	0.000	99	67042	NR	NR	

### QC Flag Legend

Processing Flags

NR - Missing Quant Standard

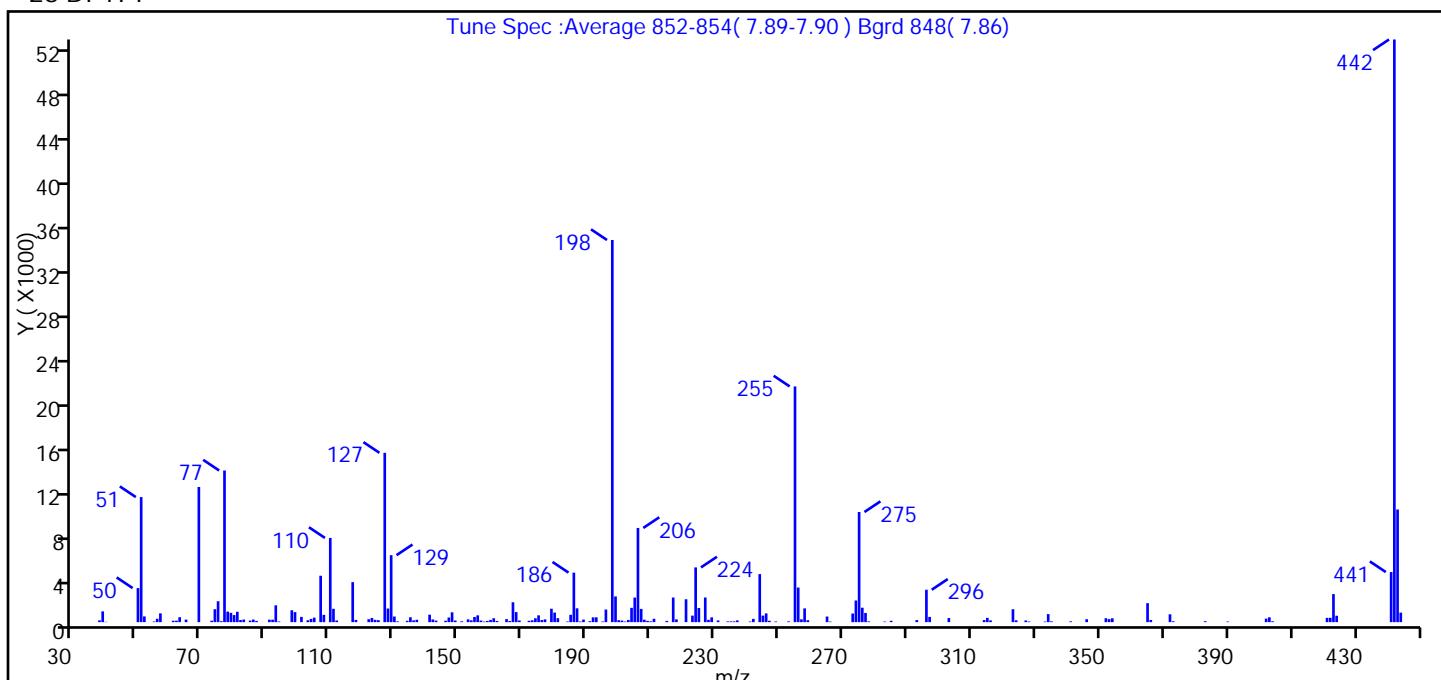
### Reagents:

SM-LLTUNE\_00086 Amount Added: 1.00 Units: mL

## TestAmerica Savannah

Data File: \\ChromNA\\Savannah\\ChromData\\CMSK\\20150819-22399.b\\1KH19001.D  
 Injection Date: 19-Aug-2015 11:48:30 Instrument ID: CMSK  
 Lims ID: DFTPP  
 Client ID:  
 Operator ID: LIMS import ALS Bottle#: 1 Worklist Smp#: 1  
 Injection Vol: 2.0 ul Dil. Factor: 1.0000  
 Method: 8270\_LLPAH\_CMSK Limit Group: 8270D\_LL\_PAH  
 Tune Method: DFTPP Method 525.2, BP 442

28 DFTPP



m/z	Ion Abundance Criteria	% Relative Abundance
442	base peak, or >90% of 198	100.0 (152.5)
51	10-80% of the base peak	21.5
68	<2% of mass 69	0.0 (0.0)
69	Present	23.2
70	<2% of mass 69	0.0 (0.0)
127	10-80% of the base peak	29.1
197	<2% of mass 198	0.0 (0.0)
198	base peak, or >50% of 442	65.6
199	5-9% of mass 198	4.4 (6.7)
275	10-60% of the base peak	18.9
365	>1% of the base peak	3.3
441	Present and < mass 443	8.6 (44.5)
443	15-24% of mass 442	19.3

Data File: \\ChromNA\Savannah\ChromData\CMSK\20150819-22399.b\1KH19001.D\8270\_LLPAH\_CMSK.rsl\spec  
 Injection Date: 19-Aug-2015 11:48:30  
 Spectrum: Tune Spec :Average 852-854( 7.89-7.90 ) Bgrd 848( 7.86)  
 Base Peak: 442.00  
 Minimum % Base Peak: 0  
 Number of Points: 189

m/z	Y	m/z	Y	m/z	Y	m/z	Y
38.00	161	125.00	180	191.00	87	266.00	53
39.00	972	127.00	15282	192.00	435	273.00	777
40.00	30	128.00	1230	193.00	435	274.00	1956
50.00	3074	129.00	6043	195.00	58	275.00	9939
51.00	11287	130.00	507	196.00	1140	276.00	1302
52.00	519	131.00	68	198.00	34488	277.00	829
55.00	57	134.00	121	199.00	2319	278.00	66
56.00	304	135.00	443	200.00	176	283.00	51
57.00	793	136.00	162	201.00	140	285.00	124
61.00	128	137.00	214	202.00	55	293.00	189
62.00	132	141.00	673	203.00	197	296.00	2925
63.00	447	142.00	242	204.00	1291	297.00	474
65.00	230	143.00	142	205.00	2216	303.00	370
69.00	12196	146.00	125	206.00	8501	314.00	187
73.00	127	147.00	416	207.00	1194	315.00	387
74.00	1167	148.00	887	208.00	223	316.00	161
75.00	1887	149.00	145	209.00	117	323.00	1165
76.00	84	151.00	72	210.00	71	324.00	167
77.00	13684	153.00	250	211.00	305	327.00	155
78.00	951	154.00	163	215.00	111	328.00	60
79.00	839	155.00	467	217.00	2220	333.00	54
80.00	640	156.00	614	218.00	251	334.00	725
81.00	935	157.00	144	221.00	2068	335.00	74
82.00	193	158.00	51	223.00	589	341.00	72
83.00	235	159.00	107	224.00	4940	346.00	263
85.00	143	160.00	202	225.00	1279	352.00	353
86.00	236	161.00	350	227.00	2223	353.00	272
87.00	108	162.00	107	228.00	210	354.00	346
91.00	226	165.00	276	229.00	432	365.00	1713
92.00	224	166.00	108	231.00	154	366.00	200
93.00	1519	167.00	1794	234.00	62	372.00	707
94.00	58	168.00	912	235.00	67	373.00	78
98.00	1074	169.00	149	236.00	71	383.00	84

Report Date: 20-Aug-2015 10:43:49

Chrom Revision: 2.2 23-Jul-2015 08:26:08

Data File:

\ChromNA\Savannah\ChromData\CMSK\20150819-22399.b\1KH19001.D\8270\_LLPAH\_CMSK.rslt\spect

Injection Date:

19-Aug-2015 11:48:30

Spectrum:

Tune Spec :Average 852-854( 7.89-7.90 ) Bgrd 848( 7.86)

Base Peak:

442.00

Minimum % Base Peak: 0

Number of Points: 189

m/z	Y	m/z	Y	m/z	Y	m/z	Y
99.00	905	172.00	122	237.00	156	390.00	53
101.00	476	173.00	167	241.00	57	402.00	318
103.00	170	174.00	351	242.00	293	403.00	437
104.00	292	175.00	615	244.00	4335	404.00	79
105.00	405	176.00	189	245.00	589	421.00	384
107.00	4187	177.00	252	246.00	789	422.00	393
108.00	659	179.00	1211	247.00	127	423.00	2532
110.00	7601	180.00	862	249.00	60	424.00	578
111.00	1204	181.00	355	253.00	71	441.00	4519
112.00	151	184.00	53	255.00	21272	442.00	52584
117.00	3609	185.00	662	256.00	3122	443.00	10166
118.00	201	186.00	4469	257.00	256	444.00	858
122.00	266	187.00	1246	258.00	1242		
123.00	379	188.00	58	259.00	178		
124.00	207	189.00	231	265.00	507		

## TestAmerica Savannah

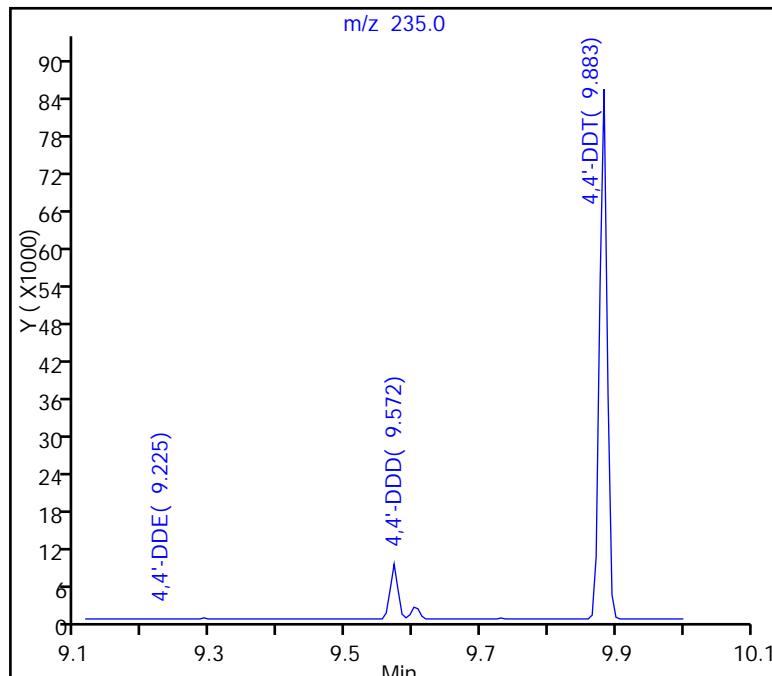
Data File: \\ChromNA\\Savannah\\ChromData\\CMSK\\20150819-22399.b\\1KH19001.D  
Injection Date: 19-Aug-2015 11:48:30 Instrument ID: CMSK  
Lims ID: DFTPP  
Client ID:  
Operator ID: LIMS import ALS Bottle#: 1 Worklist Smp#: 1  
Injection Vol: 2.0 ul Dil. Factor: 1.0000  
Method: 8270\_LLPAH\_CMSK Limit Group: 8270D\_LL\_PAH  
32 4,4'-DDT, Detector: MS SCAN

SW-846 Method

%Breakdown =  
(Area Breakdown Cpnds/  
Total Area Breakdown Cpnds) \* 100

32 4,4'-DDT, Area = 67042  
31 4,4'-DDD, Area = 7076  
30 4,4'-DDE, Area = 192

%Breakdown: 9.78%, Max Limit: 20.00%  
Passed



## TestAmerica Savannah

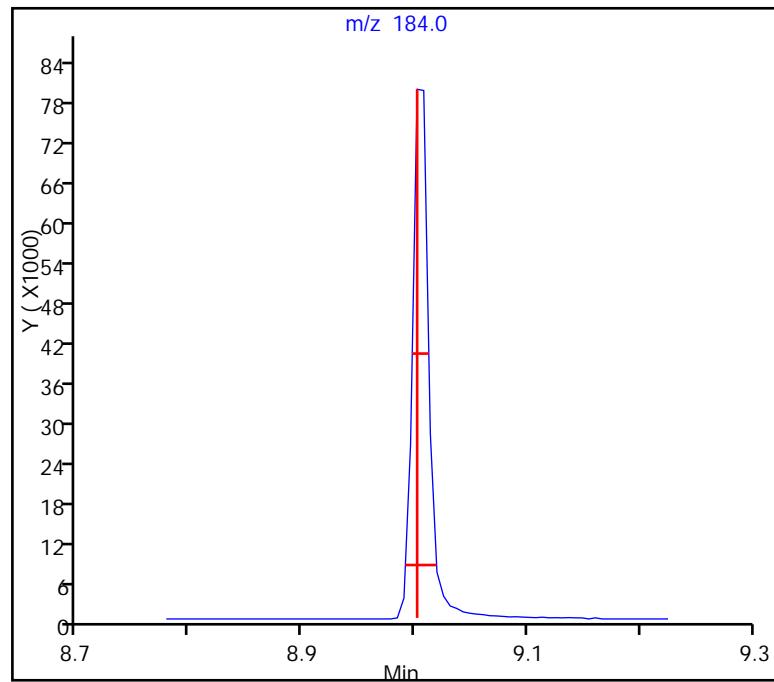
Data File: \\ChromNA\\Savannah\\ChromData\\CMSK\\20150819-22399.b\\1KH19001.D  
Injection Date: 19-Aug-2015 11:48:30 Instrument ID: CMSK  
Lims ID: DFTPP  
Client ID:  
Operator ID: LIMS import ALS Bottle#: 1 Worklist Smp#: 1  
Injection Vol: 2.0 ul Dil. Factor: 1.0000  
Method: 8270\_LLPAH\_CMSK Limit Group: 8270D\_LL\_PAH

29 Benzidine\_T, Detector: MS SCAN

Peak Tailing Factor =  
BackWidth/FrontWidth @ 10% Peak Height

Back Width = 0.017 (min.)  
Front Width = 0.010 (min.)

Tailing Factor = 1.7, Max. Tailing < 2.00  
Passed



## TestAmerica Savannah

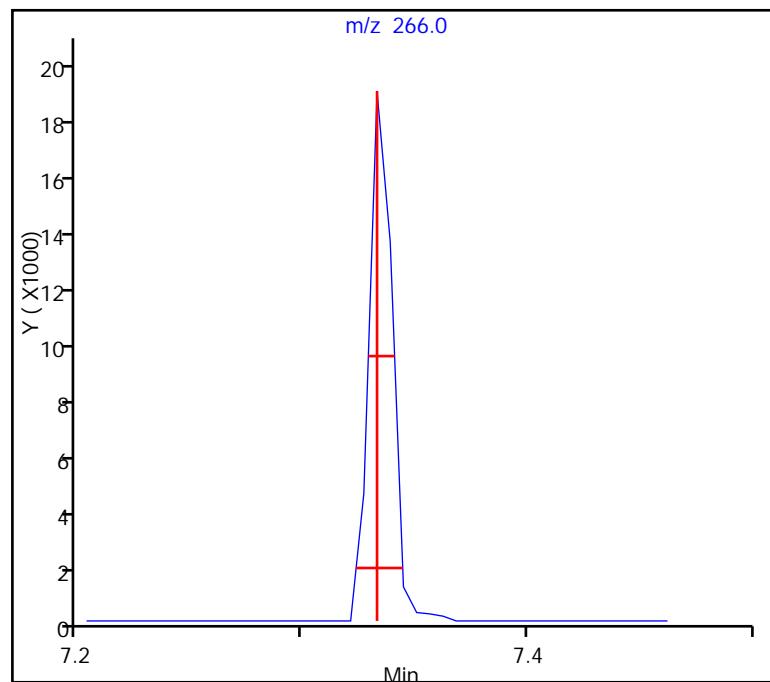
Data File: \\ChromNA\\Savannah\\ChromData\\CMSK\\20150819-22399.b\\1KH19001.D  
Injection Date: 19-Aug-2015 11:48:30 Instrument ID: CMSK  
Lims ID: DFTPP  
Client ID:  
Operator ID: LIMS import ALS Bottle#: 1 Worklist Smp#: 1  
Injection Vol: 2.0 ul Dil. Factor: 1.0000  
Method: 8270\_LLPAH\_CMSK Limit Group: 8270D\_LL\_PAH

27 Pentachlorophenol\_T, Detector: MS SCAN

Peak Tailing Factor =  
BackWidth/FrontWidth @ 10% Peak Height

Back Width = 0.011 (min.)  
Front Width = 0.009 (min.)

Tailing Factor = 1.2, Max. Tailing < 2.00  
Passed



TestAmerica Savannah  
Target Compound Quantitation Report

Data File: \\ChromNA\Savannah\ChromData\CMSY\20150812-22174.b\1YF12001.D  
 Lims ID: DFTPP  
 Client ID:  
 Sample Type: DFTPP  
 Inject. Date: 12-Aug-2015 12:39:30 ALS Bottle#: 1 Worklist Smp#: 1  
 Injection Vol: 2.0 ul Dil. Factor: 1.0000  
 Sample Info: DFTPP  
 Misc. Info.: 680-0022174-001  
 Operator ID: LIMS import Instrument ID: CMSY  
 Method: \\ChromNA\Savannah\ChromData\CMSY\20150812-22174.b\8270D\_LLPAH\_MSY.m  
 Limit Group: 8270D\_LL\_PAH  
 Last Update: 13-Aug-2015 09:36:12 Calib Date: 12-Aug-2015 16:37:30  
 Integrator: RTE ID Type: Deconvolution ID  
 Quant Method: Internal Standard Quant By: Initial Calibration  
 Last ICal File: \\ChromNA\Savannah\ChromData\CMSY\20150812-22174.b\1YF12008.D  
 Column 1 : Restek RXi-5Sil MS ( 0.25 mm) Det: MS SCAN  
 Process Host: XAWRK050

First Level Reviewer: millsj Date: 13-Aug-2015 09:36:12

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
8 Pentachlorophenol_T	266	9.222	9.222	0.000	0	35797	NC	NC	
13 Benzidine_T	184	10.607	10.607	0.000	0	152710	NC	NC	
29 DFTPP									
31 4,4'-DDD	235	11.094	11.094	0.000	92	2095		NR	
32 4,4'-DDT	235	11.361	11.361	0.000	99	101803	NR	NR	
30 4,4'-DDE	246	10.757	10.757	0.000	1	0		NR	

### QC Flag Legend

Processing Flags

NR - Missing Quant Standard

NC - Not Calibrated

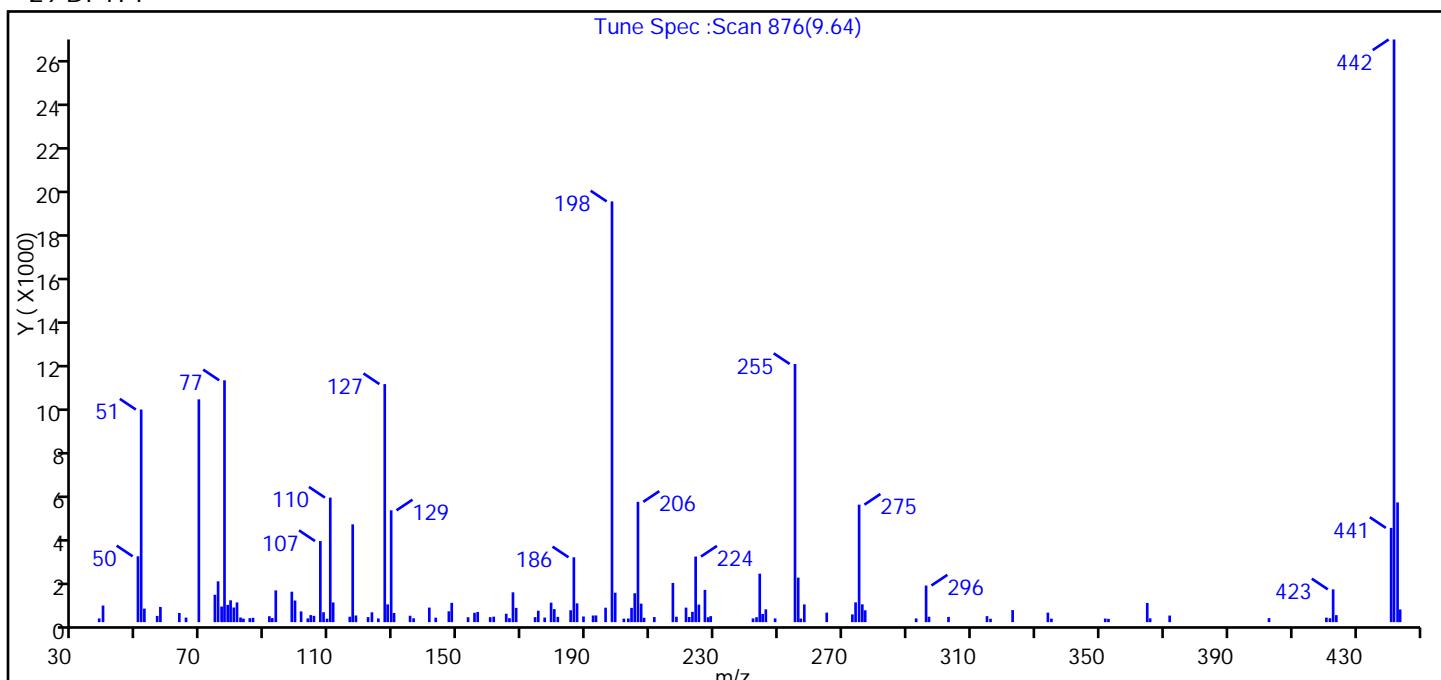
### Reagents:

SM-LLTUNE\_00086 Amount Added: 1.00 Units: mL

## TestAmerica Savannah

Data File: \\ChromNA\\Savannah\\ChromData\\CMSY\\20150812-22174.b\\1YF12001.D  
 Injection Date: 12-Aug-2015 12:39:30 Instrument ID: CMSY  
 Lims ID: DFTPP  
 Client ID:  
 Operator ID: LIMS import ALS Bottle#: 1 Worklist Smp#: 1  
 Injection Vol: 2.0 ul Dil. Factor: 1.0000  
 Method: 8270D\_LLPAH\_MSY Limit Group: 8270D\_LL\_PAH  
 Tune Method: DFTPP Method 525.2, BP 442

29 DFTPP



m/z	Ion Abundance Criteria	% Relative Abundance
442	base peak, or >50% of 198	100.0 (138.5)
51	10-80% of the base peak	36.5
68	<2% of mass 69	0.0 (0.0)
69	Present	38.2
70	<2% of mass 69	0.0 (0.0)
127	10-80% of the base peak	40.9
197	<2% of mass 198	0.0 (0.0)
198	base peak, or >50% of 442	72.2
199	5-9% of mass 198	5.1 (7.0)
275	10-60% of the base peak	20.2
365	>1% of the base peak	3.3
441	Present and < mass 443	16.2 (78.7)
443	15-24% of mass 442	20.6

Data File: \\ChromNA\Savannah\ChromData\CMSY\20150812-22174.b\1YF12001.D\8270D\_LLPAH\_MSY.rslt\spectr  
 Injection Date: 12-Aug-2015 12:39:30  
 Spectrum: Tune Spec :Scan 876(9.64)  
 Base Peak: 441.90  
 Minimum % Base Peak: 0  
 Number of Points: 133

m/z	Y	m/z	Y	m/z	Y	m/z	Y
37.90	169	110.00	5679	186.00	2957	256.80	164
39.10	757	110.90	898	187.00	856	257.90	809
50.00	3002	116.10	248	189.00	259	264.90	435
51.00	9694	117.00	4459	192.00	302	272.90	353
52.00	618	118.00	304	192.90	306	273.90	901
56.00	284	121.80	230	195.90	659	275.00	5357
57.00	694	123.00	448	197.90	19184	276.00	812
62.90	419	125.00	169	198.90	1342	276.90	542
65.00	208	127.00	10855	201.60	160	292.80	170
69.00	10160	127.90	810	203.00	166	295.90	1669
74.00	1249	129.00	5098	204.00	651	296.80	246
75.00	1862	129.90	418	205.00	1316	302.90	240
76.10	711	134.90	292	206.00	5486	314.90	274
77.00	11028	136.00	175	207.00	843	316.00	154
78.00	788	140.90	663	207.90	197	322.90	550
78.90	995	142.90	205	211.10	232	333.90	434
79.90	668	147.00	494	216.90	1787	335.00	160
80.90	899	147.90	880	218.00	247	351.80	163
82.00	211	153.00	224	221.00	662	352.80	151
82.90	162	155.00	426	222.00	236	364.90	875
84.90	181	156.00	464	223.00	470	365.80	173
85.90	199	159.90	228	224.00	2990	371.90	300
91.00	270	161.00	250	225.00	799	402.90	184
91.90	186	164.90	384	226.90	1472	420.80	207
93.00	1447	165.90	180	227.90	223	421.90	177
98.00	1388	167.00	1360	228.70	274	422.90	1495
99.00	986	168.00	650	241.90	171	423.90	320
100.90	488	173.90	228	243.00	224	441.00	4298
103.00	171	174.90	520	244.00	2210	441.90	26568
103.90	321	176.90	208	244.90	374	443.00	5460
104.90	288	178.90	888	245.90	586	443.80	579
106.90	3698	179.90	593	248.80	171		
107.90	453	181.00	242	255.00	11772		

Report Date: 13-Aug-2015 09:36:13

Chrom Revision: 2.2 23-Jul-2015 08:26:08

Data File:

\ChromNA\Savannah\ChromData\CMSY\20150812-22174.b\1YF12001.D\8270D\_LLPAH\_MSY.rslt\spect

Injection Date:

12-Aug-2015 12:39:30

Spectrum:

Tune Spec :Scan 876(9.64)

Base Peak:

441.90

Minimum % Base Peak: 0

Number of Points: 133

m/z	Y	m/z	Y	m/z	Y	m/z	Y
109.00	157	185.00	542	256.00	2030		

## TestAmerica Savannah

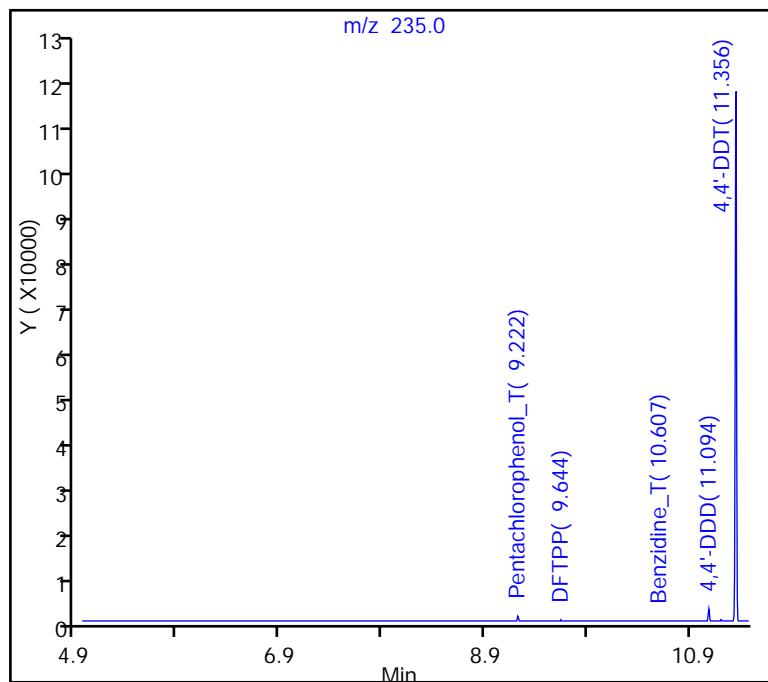
Data File: \\ChromNA\\Savannah\\ChromData\\CMSY\\20150812-22174.b\\1YF12001.D  
Injection Date: 12-Aug-2015 12:39:30 Instrument ID: CMSY  
Lims ID: DFTPP  
Client ID:  
Operator ID: LIMS import ALS Bottle#: 1 Worklist Smp#: 1  
Injection Vol: 2.0 ul Dil. Factor: 1.0000  
Method: 8270D\_LLPAH\_MSY Limit Group: 8270D\_LL\_PAH  
32 4,4'-DDT, Detector: MS SCAN

SW-846 Method

%Breakdown =  
(Area Breakdown Cpnds/  
Total Area Breakdown Cpnds) \* 100

32 4,4'-DDT, Area = 101803  
31 4,4'-DDD, Area = 2095  
30 4,4'-DDE, Area = 0

%Breakdown: 2.02%, Max Limit: 20.00%  
Passed



## TestAmerica Savannah

Data File: \\ChromNA\\Savannah\\ChromData\\CMSY\\20150812-22174.b\\1YF12001.D  
Injection Date: 12-Aug-2015 12:39:30 Instrument ID: CMSY  
Lims ID: DFTPP  
Client ID:  
Operator ID: LIMS import ALS Bottle#: 1 Worklist Smp#: 1  
Injection Vol: 2.0 ul Dil. Factor: 1.0000  
Method: 8270D\_LLPAH\_MSY Limit Group: 8270D\_LL\_PAH

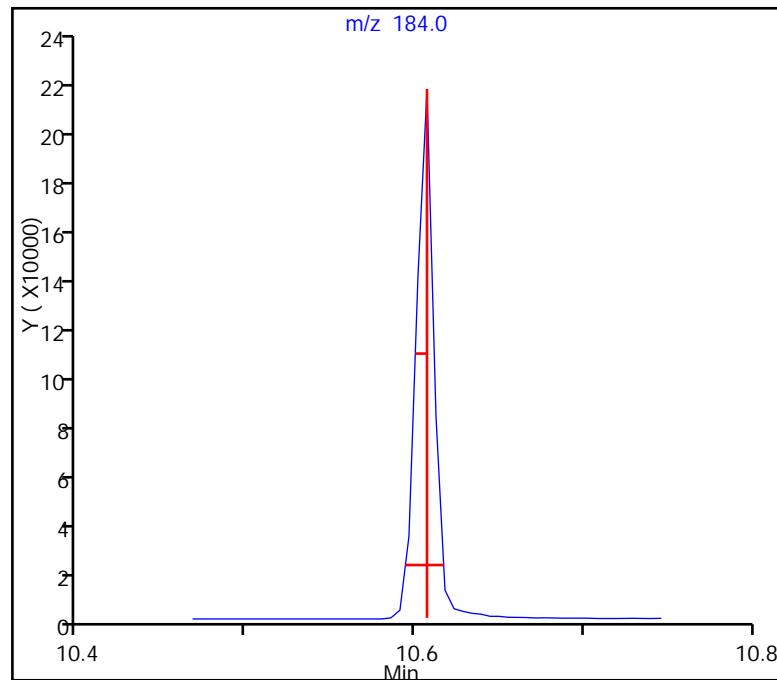
13 Benzidine\_T, Detector: MS SCAN

Peak Tailing Factor =  
BackWidth/FrontWidth @ 10% Peak Height

Back Width = 0.010 (min.)  
Front Width = 0.013 (min.)

Tailing Factor = 0.8, Max. Tailing < 2.00  
Passed

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## TestAmerica Savannah

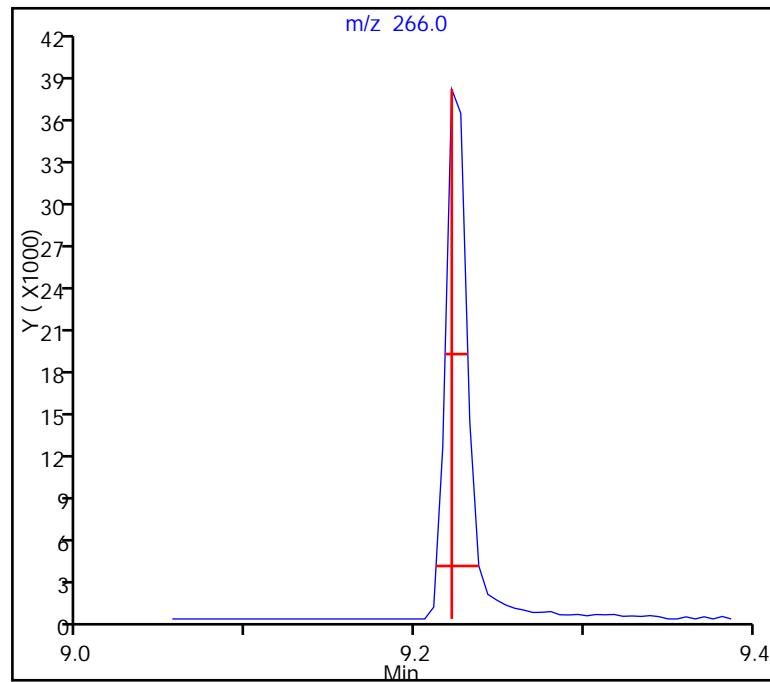
Data File: \\ChromNA\\Savannah\\ChromData\\CMSY\\20150812-22174.b\\1YF12001.D  
Injection Date: 12-Aug-2015 12:39:30 Instrument ID: CMSY  
Lims ID: DFTPP  
Client ID:  
Operator ID: LIMS import ALS Bottle#: 1 Worklist Smp#: 1  
Injection Vol: 2.0 ul Dil. Factor: 1.0000  
Method: 8270D\_LLPAH\_MSY Limit Group: 8270D\_LL\_PAH

8 Pentachlorophenol\_T, Detector: MS SCAN

Peak Tailing Factor =  
BackWidth/FrontWidth @ 10% Peak Height

Back Width = 0.016 (min.)  
Front Width = 0.009 (min.)

Tailing Factor = 1.7, Max. Tailing < 2.00  
Passed



TestAmerica Savannah  
Target Compound Quantitation Report

Data File: \\ChromNA\Savannah\ChromData\CMSY\20150818-22358.b\1YF18001.D  
 Lims ID: DFTPP  
 Client ID:  
 Sample Type: DFTPP  
 Inject. Date: 18-Aug-2015 11:21:30 ALS Bottle#: 1 Worklist Smp#: 1  
 Injection Vol: 2.0 ul Dil. Factor: 1.0000  
 Sample Info: DFTPP  
 Misc. Info.: 680-0022358-001  
 Operator ID: LIMS import Instrument ID: CMSY  
 Method: \\ChromNA\Savannah\ChromData\CMSY\20150818-22358.b\8270D\_LLPAH\_MSY.m  
 Limit Group: 8270D\_LL\_PAH  
 Last Update: 19-Aug-2015 11:22:26 Calib Date: 12-Aug-2015 16:37:30  
 Integrator: RTE ID Type: Deconvolution ID  
 Quant Method: Internal Standard Quant By: Initial Calibration  
 Last ICal File: \\ChromNA\Savannah\ChromData\CMSY\20150812-22174.b\1YF12008.D  
 Column 1 : Restek RXi-5Sil MS ( 0.25 mm) Det: MS SCAN  
 Process Host: XAWRK003

First Level Reviewer: harperda Date: 18-Aug-2015 12:08:33

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
8 Pentachlorophenol_T	266	9.141	9.141	0.000	0	10282	NC	NC	
13 Benzidine_T	184	10.521	10.521	0.000	0	38560	NC	NC	
29 DFTPP									
31 4,4'-DDD	235	11.003	11.003	0.000	91	534		NR	
32 4,4'-DDT	235	11.265	11.265	0.000	98	28733	NR	NR	

### QC Flag Legend

#### Processing Flags

NR - Missing Quant Standard

NC - Not Calibrated

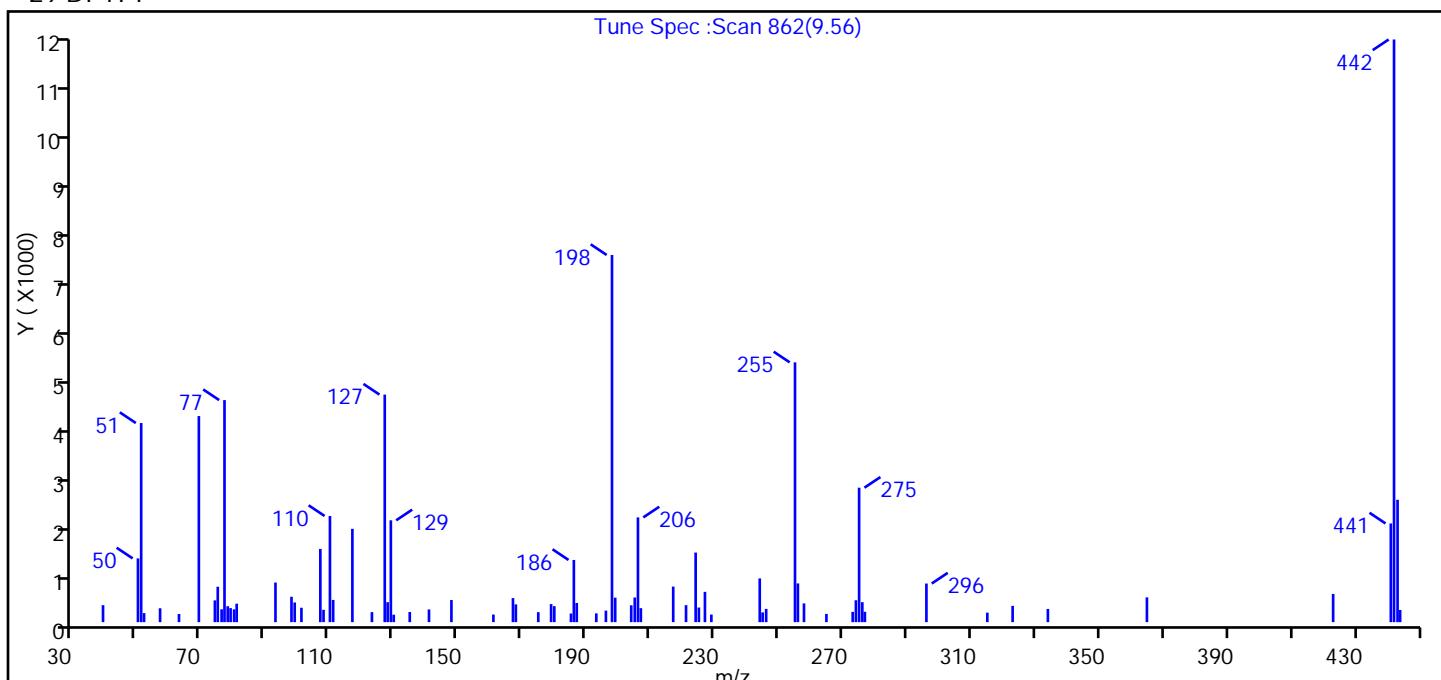
#### Reagents:

SM-LLTUNE\_00086 Amount Added: 1.00 Units: mL

## TestAmerica Savannah

Data File: \\ChromNA\\Savannah\\ChromData\\CMSY\\20150818-22358.b\\1YF18001.D  
 Injection Date: 18-Aug-2015 11:21:30 Instrument ID: CMSY  
 Lims ID: DFTPP  
 Client ID:  
 Operator ID: LIMS import ALS Bottle#: 1 Worklist Smp#: 1  
 Injection Vol: 2.0 ul Dil. Factor: 1.0000  
 Method: 8270D\_LLPAH\_MSY Limit Group: 8270D\_LL\_PAH  
 Tune Method: DFTPP Method 525.2, BP 442

29 DFTPP



m/z	Ion Abundance Criteria	% Relative Abundance
442	base peak, or >50% of 198	100.0 (158.7)
51	10-80% of the base peak	34.2
68	<2% of mass 69	0.0 (0.0)
69	Present	35.4
70	<2% of mass 69	0.0 (0.0)
127	10-80% of the base peak	39.1
197	<2% of mass 198	0.0 (0.0)
198	base peak, or >50% of 442	63.0
199	5-9% of mass 198	4.2 (6.7)
275	10-60% of the base peak	23.1
365	>1% of the base peak	4.3
441	Present and < mass 443	16.9 (80.7)
443	15-24% of mass 442	21.0

Data File: \\ChromNA\Savannah\ChromData\CMSY\20150818-22358.b\1YF18001.D\8270D\_LLPAH\_MSY.rslt\spectr  
 Injection Date: 18-Aug-2015 11:21:30  
 Spectrum: Tune Spec :Scan 862(9.56)  
 Base Peak: 441.90  
 Minimum % Base Peak: 0  
 Number of Points: 77

m/z	Y	m/z	Y	m/z	Y	m/z	Y
39.10	349	107.90	253	186.90	393	257.80	385
50.00	1309	109.90	2180	193.00	180	264.80	169
51.00	4089	110.90	456	196.00	237	273.00	211
51.90	186	116.90	1916	197.90	7540	274.00	450
56.90	285	123.00	206	198.90	503	275.00	2761
62.80	167	127.00	4673	203.90	346	276.00	410
69.00	4232	127.90	410	205.00	506	276.80	213
74.00	447	128.90	2091	206.00	2151	296.00	793
74.90	727	129.80	153	206.90	287	315.00	195
76.10	264	134.80	208	217.00	730	322.90	334
77.00	4560	140.80	261	221.00	349	333.90	271
78.00	327	147.80	454	224.00	1429	364.80	509
78.90	288	160.90	156	225.00	300	422.90	579
80.00	263	167.00	494	226.90	622	440.90	2027
80.80	379	167.90	365	228.90	156	441.90	11965
92.90	813	174.90	205	244.00	898	443.00	2513
97.90	521	178.90	371	244.90	200	443.80	250
98.90	404	179.90	328	246.00	272		
101.00	296	185.10	177	255.00	5335		
106.90	1503	186.00	1277	255.90	795		

## TestAmerica Savannah

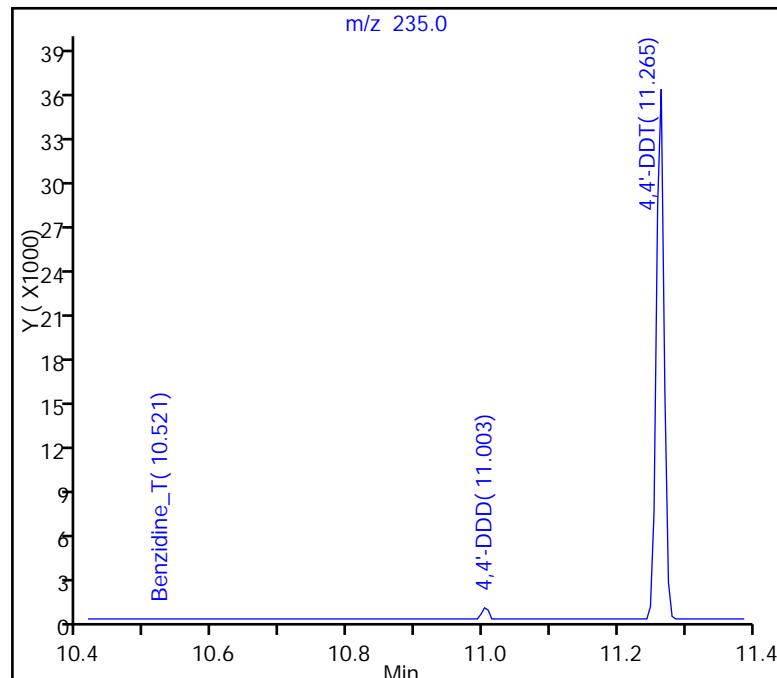
Data File: \\ChromNA\\Savannah\\ChromData\\CMSY\\20150818-22358.b\\1YF18001.D  
Injection Date: 18-Aug-2015 11:21:30 Instrument ID: CMSY  
Lims ID: DFTPP  
Client ID:  
Operator ID: LIMS import ALS Bottle#: 1 Worklist Smp#: 1  
Injection Vol: 2.0 ul Dil. Factor: 1.0000  
Method: 8270D\_LLPAH\_MSY Limit Group: 8270D\_LL\_PAH  
  
32 4,4'-DDT, Detector: MS SCAN

SW-846 Method

%Breakdown =  
(Area Breakdown Cpnds/  
Total Area Breakdown Cpnds) \* 100

32 4,4'-DDT, Area = 28733  
31 4,4'-DDD, Area = 534  
30 4,4'-DDE, Area = 0

%Breakdown: 1.82%, Max Limit: 20.00%  
Passed



## TestAmerica Savannah

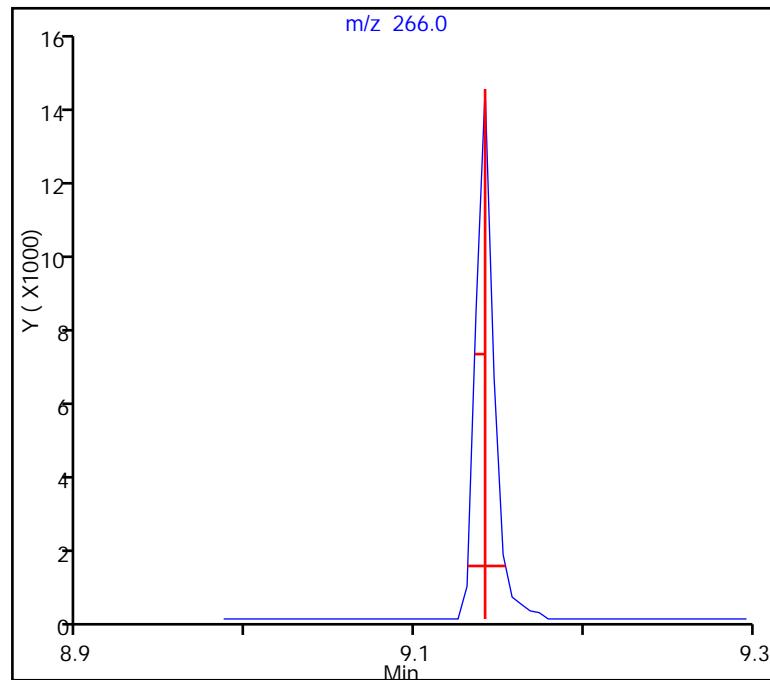
Data File: \\ChromNA\\Savannah\\ChromData\\CMSY\\20150818-22358.b\\1YF18001.D  
Injection Date: 18-Aug-2015 11:21:30 Instrument ID: CMSY  
Lims ID: DFTPP  
Client ID:  
Operator ID: LIMS import ALS Bottle#: 1 Worklist Smp#: 1  
Injection Vol: 2.0 ul Dil. Factor: 1.0000  
Method: 8270D\_LLPAH\_MSY Limit Group: 8270D\_LL\_PAH

8 Pentachlorophenol\_T, Detector: MS SCAN

Peak Tailing Factor =  
BackWidth/FrontWidth @ 10% Peak Height

Back Width = 0.012 (min.)  
Front Width = 0.010 (min.)

Tailing Factor = 1.2, Max. Tailing < 2.00  
Passed



## TestAmerica Savannah

Data File: \\ChromNA\\Savannah\\ChromData\\CMSY\\20150818-22358.b\\1YF18001.D  
Injection Date: 18-Aug-2015 11:21:30 Instrument ID: CMSY  
Lims ID: DFTPP  
Client ID:  
Operator ID: LIMS import ALS Bottle#: 1 Worklist Smp#: 1  
Injection Vol: 2.0 ul Dil. Factor: 1.0000  
Method: 8270D\_LLPAH\_MSY Limit Group: 8270D\_LL\_PAH

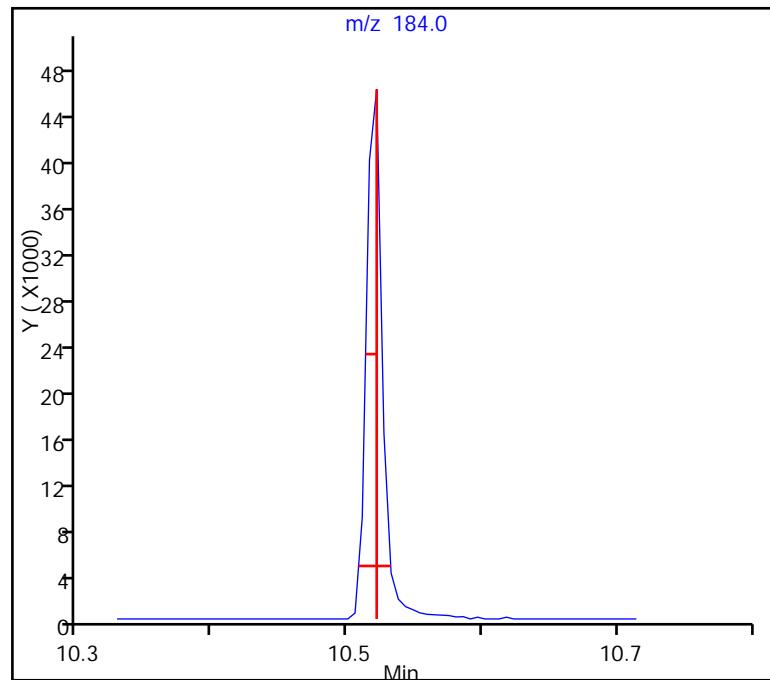
13 Benzidine\_T, Detector: MS SCAN

Peak Tailing Factor =  
BackWidth/FrontWidth @ 10% Peak Height

Back Width = 0.010 (min.)  
Front Width = 0.013 (min.)

Tailing Factor = 0.8, Max. Tailing < 2.00  
Passed

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FORM I  
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Savannah Job No.: 680-115692-1  
 SDG No.: 680-115692-01  
 Client Sample ID: Lab Sample ID: MB 680-396525/21-A  
 Matrix: Solid Lab File ID: 1YF18005.D  
 Analysis Method: 8270D\_LL\_PAH Date Collected:  
 Extract. Method: 3546 Date Extracted: 08/17/2015 10:44  
 Sample wt/vol: 30.01(g) Date Analyzed: 08/18/2015 13:34  
 Con. Extract Vol.: 1(mL) Dilution Factor: 1  
 Injection Volume: 2(uL) Level: (low/med) Low  
 % Moisture: GPC Cleanup: (Y/N) N  
 Analysis Batch No.: 396712 Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	6.7	U	6.7	3.3
208-96-8	Acenaphthylene	6.7	U	6.7	3.3
120-12-7	Anthracene	6.7	U	6.7	3.3
56-55-3	Benzo[a]anthracene	6.7	U	6.7	3.3
50-32-8	Benzo[a]pyrene	6.7	U	6.7	1.2
205-99-2	Benzo[b]fluoranthene	6.7	U	6.7	3.3
191-24-2	Benzo[g,h,i]perylene	6.7	U	6.7	3.3
207-08-9	Benzo[k]fluoranthene	6.7	U	6.7	2.0
218-01-9	Chrysene	6.7	U	6.7	3.3
53-70-3	Dibenz(a,h)anthracene	6.7	U	6.7	3.3
206-44-0	Fluoranthene	6.7	U	6.7	3.3
86-73-7	Fluorene	6.7	U	6.7	3.3
193-39-5	Indeno[1,2,3-cd]pyrene	6.7	U	6.7	3.3
90-12-0	1-Methylnaphthalene	6.7	U	6.7	3.1
91-57-6	2-Methylnaphthalene	6.7	U	6.7	3.3
91-20-3	Naphthalene	6.7	U	6.7	3.3
85-01-8	Phenanthrene	6.7	U	6.7	2.4
129-00-0	Pyrene	6.7	U	6.7	3.3

CAS NO.	SURROGATE	%REC	Q	LIMITS
84-15-1	o-Terphenyl	85		36-131

TestAmerica Savannah  
Target Compound Quantitation Report

Data File: \\ChromNA\Savannah\ChromData\CMSY\20150818-22358.b\1YF18005.D  
 Lims ID: MB 680-396525/21-A  
 Client ID:  
 Sample Type: MB  
 Inject. Date: 18-Aug-2015 13:34:30 ALS Bottle#: 5 Worklist Smp#: 5  
 Injection Vol: 2.0 ul Dil. Factor: 1.0000  
 Sample Info: MB 680-396525/21-A  
 Misc. Info.: 680-0022358-005  
 Operator ID: LIMS import Instrument ID: CMSY  
 Method: \\ChromNA\Savannah\ChromData\CMSY\20150818-22358.b\8270D\_LLPAH\_MSY.m  
 Limit Group: 8270D\_LL\_PAH  
 Last Update: 19-Aug-2015 11:22:28 Calib Date: 12-Aug-2015 16:37:30  
 Integrator: RTE ID Type: Deconvolution ID  
 Quant Method: Internal Standard Quant By: Initial Calibration  
 Last ICal File: \\ChromNA\Savannah\ChromData\CMSY\20150812-22174.b\1YF12008.D  
 Column 1 : Restek RXi-5Sil MS ( 0.25 mm) Det: MS SCAN  
 Process Host: XAWRK003

First Level Reviewer: millsj Date: 19-Aug-2015 10:41:03

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
* 1 Naphthalene-d8	136	6.365	6.366	-0.001	99	43898	2.00	2.00	
* 2 Acenaphthene-d10	164	7.970	7.975	-0.005	96	24378	2.00	2.00	
* 3 Phenanthrene-d10	188	9.302	9.307	-0.005	97	52331	2.00	2.00	
* 4 Chrysene-d12	240	11.757	11.773	-0.016	98	70774	2.00	2.00	
* 5 Perylene-d12	264	13.522	13.538	-0.016	99	75692	2.00	2.00	
\$ 6 o-Terphenyl	230	9.650	9.655	-0.005	91	27368	2.00	1.69	
13 Benzidine_T	184	10.735	10.521	0.214	0	3962		NC	

### QC Flag Legend

#### Processing Flags

NC - Not Calibrated

#### Reagents:

SM-LLISTD\_00128

Amount Added: 10.00

Units: uL

Run Reagent

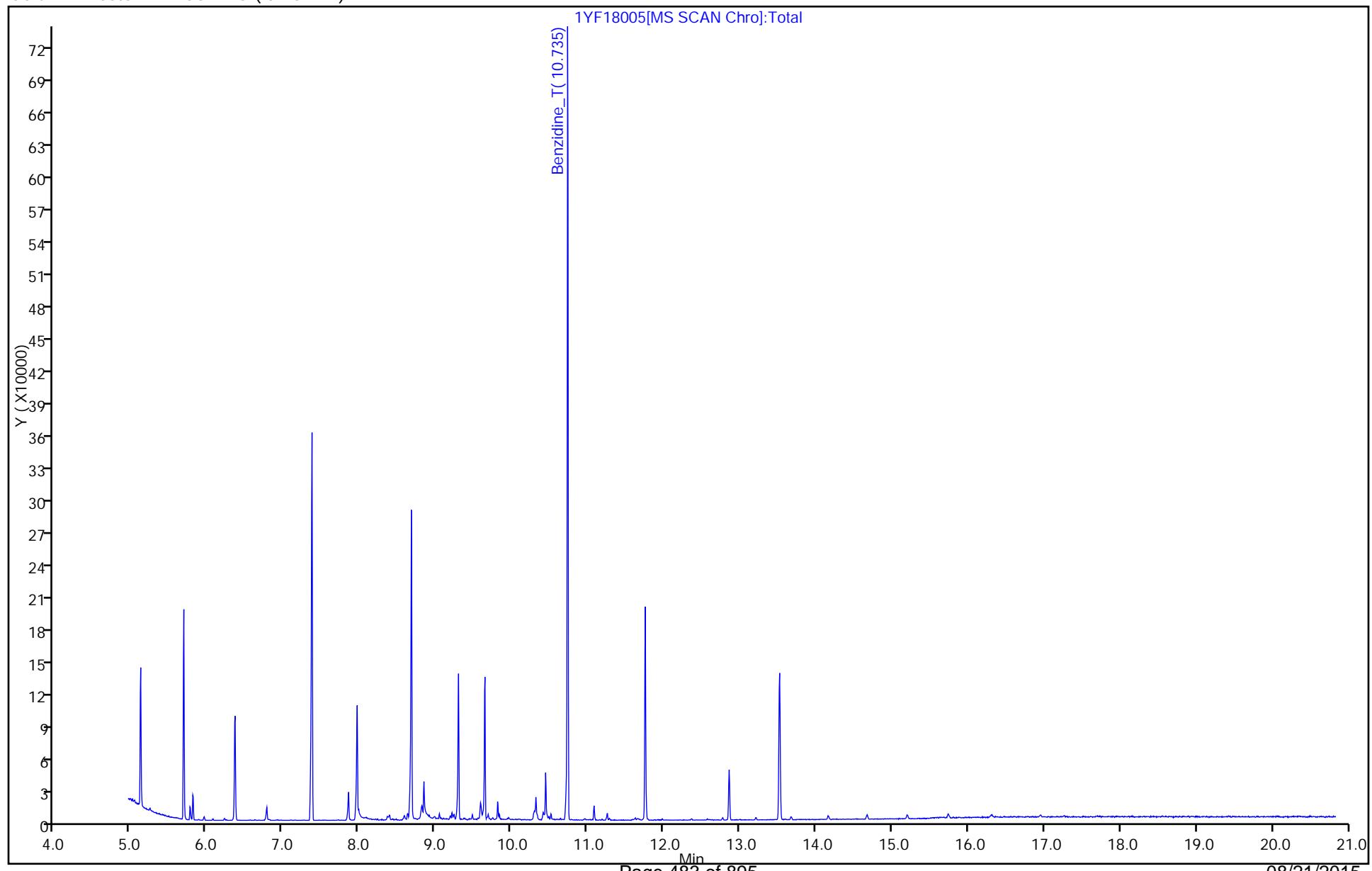
Report Date: 19-Aug-2015 11:22:31

Chrom Revision: 2.2 23-Jul-2015 08:26:08

TestAmerica Savannah

Data File: \\ChromNA\\Savannah\\ChromData\\CMSY\\20150818-22358.b\\1YF18005.D  
Injection Date: 18-Aug-2015 13:34:30 Instrument ID: CMSY  
Lims ID: MB 680-396525/21-A Operator ID: LIMS import  
Client ID:  
Injection Vol: 2.0 ul Dil. Factor: 1.0000 ALS Bottle#: 5  
Method: 8270D\_LLPAH\_MSY Limit Group: 8270D\_LL\_PAH  
Column: Restek RXi-5Sil MS ( 0.25 mm)

Worklist Smp#: 5



FORM I  
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Savannah Job No.: 680-115692-1  
 SDG No.: 680-115692-01  
 Client Sample ID: Lab Sample ID: LCS 680-396525/22-A  
 Matrix: Solid Lab File ID: 1YF18006.D  
 Analysis Method: 8270D\_LL\_PAH Date Collected:  
 Extract. Method: 3546 Date Extracted: 08/17/2015 10:44  
 Sample wt/vol: 30.07(g) Date Analyzed: 08/18/2015 14:03  
 Con. Extract Vol.: 1(mL) Dilution Factor: 1  
 Injection Volume: 2(uL) Level: (low/med) Low  
 % Moisture: GPC Cleanup: (Y/N) N  
 Analysis Batch No.: 396712 Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	293		6.7	3.3
208-96-8	Acenaphthylene	274		6.7	3.3
120-12-7	Anthracene	392		6.7	3.3
56-55-3	Benzo[a]anthracene	331		6.7	3.3
50-32-8	Benzo[a]pyrene	360		6.7	1.2
205-99-2	Benzo[b]fluoranthene	350		6.7	3.3
191-24-2	Benzo[g,h,i]perylene	363		6.7	3.3
207-08-9	Benzo[k]fluoranthene	351		6.7	2.0
218-01-9	Chrysene	314		6.7	3.3
53-70-3	Dibenz(a,h)anthracene	364		6.7	3.3
206-44-0	Fluoranthene	341		6.7	3.3
86-73-7	Fluorene	310		6.7	3.3
193-39-5	Indeno[1,2,3-cd]pyrene	353		6.7	3.3
90-12-0	1-Methylnaphthalene	282		6.7	3.1
91-57-6	2-Methylnaphthalene	287		6.7	3.3
91-20-3	Naphthalene	278		6.7	3.3
85-01-8	Phenanthrene	342		6.7	2.4
129-00-0	Pyrene	322		6.7	3.3

CAS NO.	SURROGATE	%REC	Q	LIMITS
84-15-1	o-Terphenyl	91		36-131

TestAmerica Savannah  
Target Compound Quantitation Report

Data File: \\ChromNA\Savannah\ChromData\CMSY\20150818-22358.b\1YF18006.D  
 Lims ID: LCS 680-396525/22-A  
 Client ID:  
 Sample Type: LCS  
 Inject. Date: 18-Aug-2015 14:03:30 ALS Bottle#: 6 Worklist Smp#: 6  
 Injection Vol: 2.0 ul Dil. Factor: 1.0000  
 Sample Info: LCS 680-396525/22-A  
 Misc. Info.: 680-0022358-006  
 Operator ID: LIMS import Instrument ID: CMSY  
 Method: \\ChromNA\Savannah\ChromData\CMSY\20150818-22358.b\8270D\_LLPAH\_MSY.m  
 Limit Group: 8270D\_LL\_PAH  
 Last Update: 19-Aug-2015 11:22:28 Calib Date: 12-Aug-2015 16:37:30  
 Integrator: RTE ID Type: Deconvolution ID  
 Quant Method: Internal Standard Quant By: Initial Calibration  
 Last ICal File: \\ChromNA\Savannah\ChromData\CMSY\20150812-22174.b\1YF12008.D  
 Column 1 : Restek RXi-5Sil MS ( 0.25 mm) Det: MS SCAN  
 Process Host: XAWRK003

First Level Reviewer: millsj

Date:

19-Aug-2015 10:41:29

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
* 1 Naphthalene-d8	136	6.366	6.366	0.000	98	44810	2.00	2.00	
* 2 Acenaphthene-d10	164	7.970	7.975	-0.005	96	25247	2.00	2.00	
* 3 Phenanthrene-d10	188	9.307	9.307	0.000	97	53259	2.00	2.00	
* 4 Chrysene-d12	240	11.768	11.773	-0.005	98	77512	2.00	2.00	
* 5 Perylene-d12	264	13.527	13.538	-0.011	99	87666	2.00	2.00	
\$ 6 o-Terphenyl	230	9.650	9.655	-0.005	90	32167	2.00	1.82	
7 Naphthalene	128	6.387	6.387	0.000	98	168864	10.0	8.35	
9 2-Methylnaphthalene	142	7.034	7.034	0.000	83	124583	10.0	8.62	
10 1-Methylnaphthalene	142	7.120	7.120	0.000	91	108971	10.0	8.49	
11 1,1'-Biphenyl	154	7.467	7.467	0.000	99	162746	10.0	9.40	
12 Acenaphthylene	152	7.847	7.847	0.000	97	190425	10.0	8.25	
14 Acenaphthene	153	8.002	8.002	0.000	95	132822	10.0	8.80	
15 Dibenzofuran	168	8.163	8.163	0.000	100	199616	10.0	9.97	
16 Fluorene	166	8.468	8.468	0.000	93	161675	10.0	9.31	
17 Phenanthrene	178	9.329	9.329	0.000	97	261883	10.0	10.3	
18 Anthracene	178	9.377	9.371	0.006	99	257827	10.0	11.8	
19 Fluoranthene	202	10.393	10.398	-0.005	98	313455	10.0	10.2	
20 Pyrene	202	10.596	10.602	-0.006	98	328464	10.0	9.70	
21 Benzo[a]anthracene	228	11.757	11.762	-0.005	96	371181	10.0	9.95	
22 Chrysene	228	11.794	11.805	-0.011	99	336441	10.0	9.44	
23 Benzo[b]fluoranthene	252	13.035	13.041	-0.006	97	450542	10.0	10.5	
24 Benzo[k]fluoranthene	252	13.073	13.078	-0.005	97	441364	10.0	10.6	
25 Benzo[a]pyrene	252	13.463	13.469	-0.006	98	431809	10.0	10.8	
26 Indeno[1,2,3-cd]pyrene	276	15.025	15.025	0.000	95	605036	10.0	10.6	
27 Dibenz(a,h)anthracene	278	15.046	15.041	0.005	98	531626	10.0	10.9	
28 Benzo[g,h,i]perylene	276	15.399	15.399	0.000	95	506531	10.0	10.9	

Report Date: 19-Aug-2015 11:22:32

Chrom Revision: 2.2 23-Jul-2015 08:26:08

**Reagents:**

SM-LLISTD\_00128

Amount Added: 10.00

Units: uL

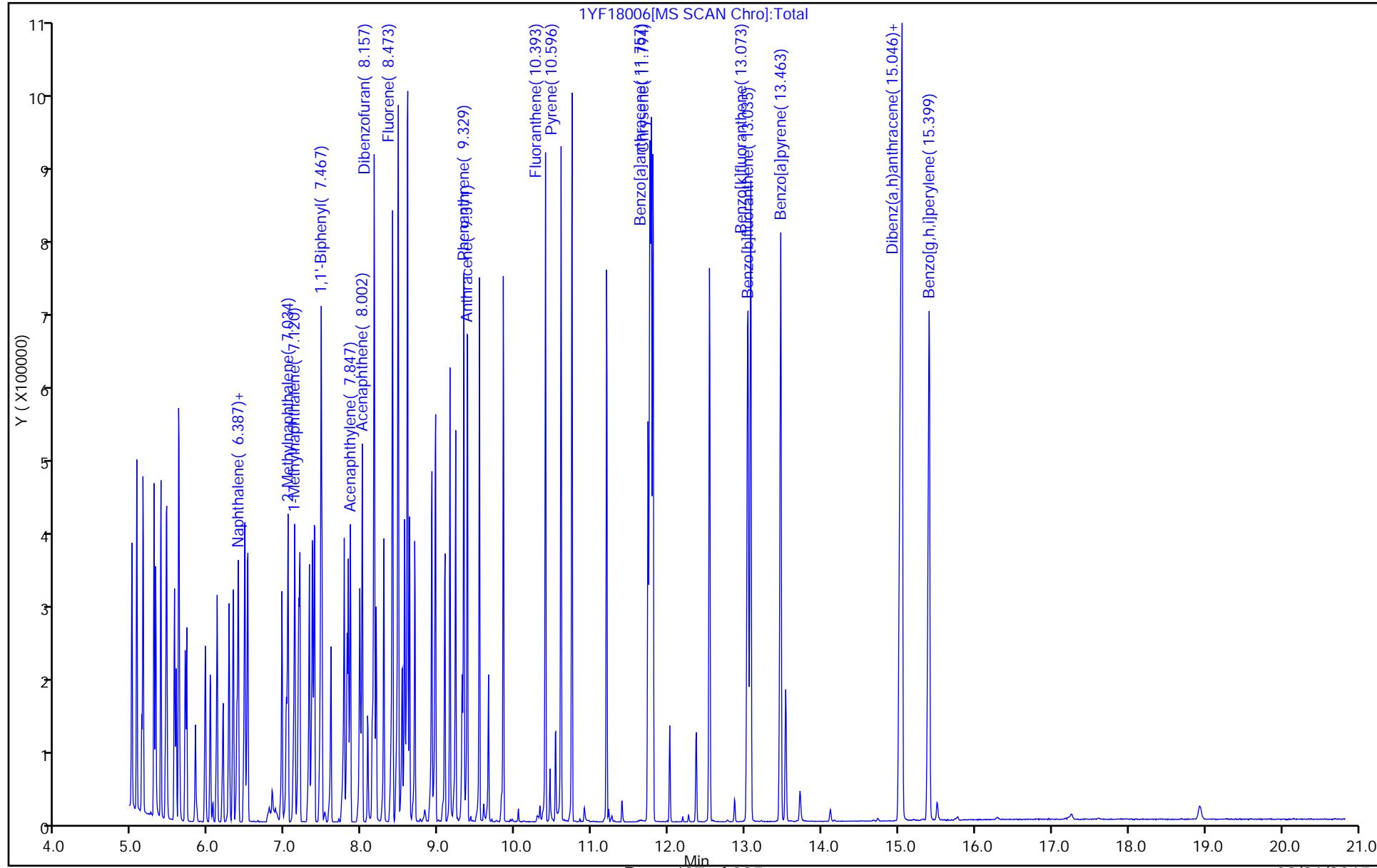
Run Reagent

Report Date: 19-Aug-2015 11:22:32

Chrom Revision: 2.2 23-Jul-2015 08:26:08

## TestAmerica Savannah

Data File: \\ChromNA\\Savannah\\ChromData\\CMSY\\20150818-22358.b\\1YF18006.D  
Injection Date: 18-Aug-2015 14:03:30 Instrument ID: CMSY  
Lims ID: LCS 680-396525/22-A Operator ID: LIMS import  
Client ID:  
Injection Vol: 2.0 ul Worklist Smp#: 6  
Method: 8270D\_LLPAH\_MSY Dil. Factor: 1.0000  
Column: Restek RXi-5Sil MS ( 0.25 mm) Limit Group: 8270D\_LL\_PAH



FORM I  
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Savannah	Job No.: 680-115692-1
SDG No.: 680-115692-01	
Client Sample ID: CV0511NN-CS-6 MS	Lab Sample ID: 680-115692-1 MS
Matrix: Solid	Lab File ID: 1YF18007.D
Analysis Method: 8270D_LL_PAH	Date Collected: 08/10/2015 14:00
Extract. Method: 3546	Date Extracted: 08/17/2015 10:44
Sample wt/vol: 30.00 (g)	Date Analyzed: 08/18/2015 14:31
Con. Extract Vol.: 1 (mL)	Dilution Factor: 10
Injection Volume: 2 (uL)	Level: (low/med) Low
% Moisture: 11.2	GPC Cleanup: (Y/N) N
Analysis Batch No.: 396712	Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	280		75	37
208-96-8	Acenaphthylene	253		75	37
120-12-7	Anthracene	377		75	37
56-55-3	Benzo[a]anthracene	642		75	37
50-32-8	Benzo[a]pyrene	610		75	14
205-99-2	Benzo[b]fluoranthene	764		75	37
191-24-2	Benzo[g,h,i]perylene	481		75	37
207-08-9	Benzo[k]fluoranthene	537		75	23
218-01-9	Chrysene	640		75	37
53-70-3	Dibenz(a,h)anthracene	341		75	37
206-44-0	Fluoranthene	1010		75	37
86-73-7	Fluorene	278		75	37
193-39-5	Indeno[1,2,3-cd]pyrene	501		75	37
90-12-0	1-Methylnaphthalene	261		75	35
91-57-6	2-Methylnaphthalene	265		75	37
91-20-3	Naphthalene	258		75	37
85-01-8	Phenanthrene	567		75	27
129-00-0	Pyrene	782		75	37

CAS NO.	SURROGATE	%REC	Q	LIMITS
84-15-1	o-Terphenyl	0	D	36-131

TestAmerica Savannah  
Target Compound Quantitation Report

Data File: \\ChromNA\Savannah\ChromData\CMSY\20150818-22358.b\1YF18007.D  
 Lims ID: 680-115692-A-1-B MS  
 Client ID: CV0511NN-CS-6  
 Sample Type: MS  
 Inject. Date: 18-Aug-2015 14:31:30 ALS Bottle#: 7 Worklist Smp#: 7  
 Injection Vol: 2.0 ul Dil. Factor: 10.0000  
 Sample Info: 680-115692-A-1-B MS  
 Misc. Info.: 680-0022358-00  
 Operator ID: LIMS import Instrument ID: CMSY  
 Method: \\ChromNA\Savannah\ChromData\CMSY\20150818-22358.b\8270D\_LLPAH\_MSY.m  
 Limit Group: 8270D\_LL\_PAH  
 Last Update: 19-Aug-2015 11:22:28 Calib Date: 12-Aug-2015 16:37:30  
 Integrator: RTE ID Type: Deconvolution ID  
 Quant Method: Internal Standard Quant By: Initial Calibration  
 Last ICal File: \\ChromNA\Savannah\ChromData\CMSY\20150812-22174.b\1YF12008.D  
 Column 1 : Restek RXi-5Sil MS ( 0.25 mm) Det: MS SCAN  
 Process Host: XAWRK003

First Level Reviewer: millsj

Date:

19-Aug-2015 10:41:46

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
* 1 Naphthalene-d8	136	6.366	6.366	0.000	99	46061	0.2000	2.00	
* 2 Acenaphthene-d10	164	7.970	7.975	-0.005	97	25126	0.2000	2.00	
* 3 Phenanthrene-d10	188	9.302	9.307	-0.005	97	53368	0.2000	2.00	
* 4 Chrysene-d12	240	11.757	11.773	-0.016	98	77083	0.2000	2.00	
* 5 Perylene-d12	264	13.522	13.538	-0.016	99	92682	0.2000	2.00	
7 Naphthalene	128	6.382	6.387	-0.005	98	14315	1.00	0.6885	
9 2-Methylnaphthalene	142	7.034	7.034	0.000	83	10497	1.00	0.7064	
10 1-Methylnaphthalene	142	7.120	7.120	0.000	91	9176	1.00	0.6955	
11 1,1'-Biphenyl	154	7.462	7.467	-0.005	99	12838	1.00	0.7450	
12 Acenaphthylene	152	7.842	7.847	-0.005	97	15481	1.00	0.6742	
14 Acenaphthene	153	8.002	8.002	0.000	94	11199	1.00	0.7455	
15 Dibenzofuran	168	8.157	8.163	-0.006	99	15715	1.00	0.7885	
16 Fluorene	166	8.462	8.468	-0.006	93	12787	1.00	0.7401	
8 Pentachlorophenol_T	266	9.142	9.141	0.001	0	4545		NC	
17 Phenanthrene	178	9.323	9.329	-0.006	97	38544	1.00	1.51	
18 Anthracene	178	9.372	9.371	0.001	98	22007	1.00	1.00	
19 Fluoranthene	202	10.388	10.398	-0.010	98	82732	1.00	2.70	
13 Benzidine_T	184	10.735	10.521	0.214	0	249		NC	
20 Pyrene	202	10.591	10.602	-0.011	98	70149	1.00	2.08	
21 Benzo[a]anthracene	228	11.746	11.762	-0.016	97	63457	1.00	1.71	
22 Chrysene	228	11.784	11.805	-0.021	99	60417	1.00	1.70	
23 Benzo[b]fluoranthene	252	13.025	13.041	-0.016	96	92227	1.00	2.04	
24 Benzo[k]fluoranthene	252	13.057	13.078	-0.021	96	63294	1.00	1.43	
25 Benzo[a]pyrene	252	13.453	13.469	-0.016	98	68461	1.00	1.63	
26 Indeno[1,2,3-cd]pyrene	276	15.009	15.025	-0.016	96	75687	1.00	1.34	
27 Dibenz(a,h)anthracene	278	15.025	15.041	-0.016	95	46737	1.00	0.9093	
28 Benzo[g,h,i]perylene	276	15.378	15.399	-0.021	95	62769	1.00	1.28	

**QC Flag Legend**

Processing Flags

NC - Not Calibrated

**Reagents:**

SM-LLISTD\_00128

Amount Added: 10.00

Units: uL

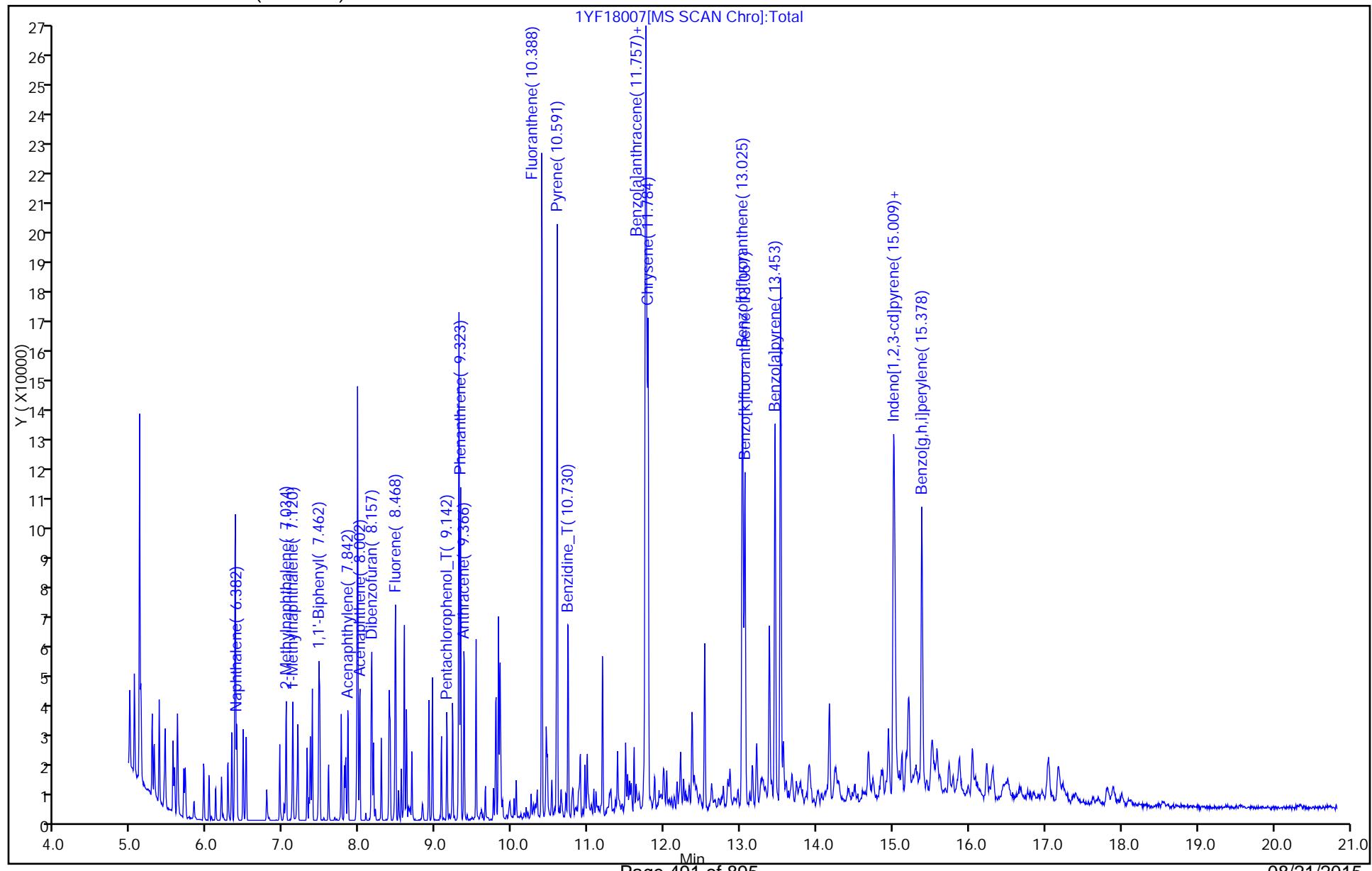
Run Reagent

Report Date: 19-Aug-2015 11:22:33

Chrom Revision: 2.2 23-Jul-2015 08:26:08

## TestAmerica Savannah

Data File: \\ChromNA\\Savannah\\ChromData\\CMSY\\20150818-22358.b\\1YF18007.D  
 Injection Date: 18-Aug-2015 14:31:30 Instrument ID: CMSY  
 Lims ID: 680-115692-A-1-B MS Operator ID: LIMS import  
 Client ID: CV0511NN-CS-6 Worklist Smp#: 7  
 Injection Vol: 2.0 ul Dil. Factor: 10.0000 ALS Bottle#: 7  
 Method: 8270D\_LLPAH\_MSY Limit Group: 8270D\_LL\_PAH  
 Column: Restek RXi-5Sil MS ( 0.25 mm)



FORM I  
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Savannah Job No.: 680-115692-1  
 SDG No.: 680-115692-01  
 Client Sample ID: CV0511NN-CS-6 MSD Lab Sample ID: 680-115692-1 MSD  
 Matrix: Solid Lab File ID: 1YF18008.D  
 Analysis Method: 8270D\_LL\_PAH Date Collected: 08/10/2015 14:00  
 Extract. Method: 3546 Date Extracted: 08/17/2015 10:44  
 Sample wt/vol: 30.04(g) Date Analyzed: 08/18/2015 14:59  
 Con. Extract Vol.: 1(mL) Dilution Factor: 10  
 Injection Volume: 2(uL) Level: (low/med) Low  
 % Moisture: 11.2 GPC Cleanup: (Y/N) N  
 Analysis Batch No.: 396712 Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	348		75	37
208-96-8	Acenaphthylene	297		75	37
120-12-7	Anthracene	447		75	37
56-55-3	Benzo[a]anthracene	790		75	37
50-32-8	Benzo[a]pyrene	764		75	13
205-99-2	Benzo[b]fluoranthene	931		75	37
191-24-2	Benzo[g,h,i]perylene	544		75	37
207-08-9	Benzo[k]fluoranthene	657		75	22
218-01-9	Chrysene	764		75	37
53-70-3	Dibenz(a,h)anthracene	401		75	37
206-44-0	Fluoranthene	1190		75	37
86-73-7	Fluorene	339		75	37
193-39-5	Indeno[1,2,3-cd]pyrene	539		75	37
90-12-0	1-Methylnaphthalene	295		75	35
91-57-6	2-Methylnaphthalene	314		75	37
91-20-3	Naphthalene	306		75	37
85-01-8	Phenanthrene	710		75	27
129-00-0	Pyrene	967		75	37

CAS NO.	SURROGATE	%REC	Q	LIMITS
84-15-1	o-Terphenyl	0	D	36-131

TestAmerica Savannah  
Target Compound Quantitation Report

Data File: \\ChromNA\Savannah\ChromData\CMSY\20150818-22358.b\1YF18008.D  
 Lims ID: 680-115692-A-1-C MSD  
 Client ID: CV0511NN-CS-6  
 Sample Type: MSD  
 Inject. Date: 18-Aug-2015 14:59:30 ALS Bottle#: 8 Worklist Smp#: 8  
 Injection Vol: 2.0 ul Dil. Factor: 10.0000  
 Sample Info: 680-115692-A-1-C MSD  
 Misc. Info.: 680-0022358-008  
 Operator ID: LIMS import Instrument ID: CMSY  
 Method: \\ChromNA\Savannah\ChromData\CMSY\20150818-22358.b\8270D\_LLPAH\_MSY.m  
 Limit Group: 8270D\_LL\_PAH  
 Last Update: 19-Aug-2015 11:22:28 Calib Date: 12-Aug-2015 16:37:30  
 Integrator: RTE ID Type: Deconvolution ID  
 Quant Method: Internal Standard Quant By: Initial Calibration  
 Last ICal File: \\ChromNA\Savannah\ChromData\CMSY\20150812-22174.b\1YF12008.D  
 Column 1 : Restek RXi-5Sil MS ( 0.25 mm) Det: MS SCAN  
 Process Host: XAWRK003

First Level Reviewer: millsj

Date:

19-Aug-2015 10:41:59

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
* 1 Naphthalene-d8	136	6.365	6.366	-0.001	99	47658	0.2000	2.00	
* 2 Acenaphthene-d10	164	7.970	7.975	-0.005	97	26244	0.2000	2.00	
* 3 Phenanthrene-d10	188	9.302	9.307	-0.005	97	57179	0.2000	2.00	
* 4 Chrysene-d12	240	11.757	11.773	-0.016	98	80848	0.2000	2.00	
* 5 Perylene-d12	264	13.522	13.538	-0.016	98	92533	0.2000	2.00	
7 Naphthalene	128	6.382	6.387	-0.005	98	17543	1.00	0.8155	
9 2-Methylnaphthalene	142	7.034	7.034	0.000	81	12881	1.00	0.8377	
10 1-Methylnaphthalene	142	7.120	7.120	0.000	90	10753	1.00	0.7877	
11 1,1'-Biphenyl	154	7.462	7.467	-0.005	99	15883	1.00	0.8825	
12 Acenaphthylene	152	7.842	7.847	-0.005	97	19003	1.00	0.7923	
14 Acenaphthene	153	8.002	8.002	0.000	94	14583	1.00	0.9294	
15 Dibenzofuran	168	8.157	8.163	-0.006	96	19444	1.00	0.9340	
16 Fluorene	166	8.462	8.468	-0.006	94	16313	1.00	0.9040	
8 Pentachlorophenol_T	266	9.141	9.141	0.000	0	5935		NC	
17 Phenanthrene	178	9.323	9.329	-0.006	97	51776	1.00	1.89	
18 Anthracene	178	9.366	9.371	-0.005	99	28001	1.00	1.19	
19 Fluoranthene	202	10.388	10.398	-0.010	98	103994	1.00	3.17	
13 Benzidine_T	184	10.735	10.521	0.214	0	418		NC	
20 Pyrene	202	10.591	10.602	-0.011	98	91139	1.00	2.58	
21 Benzo[a]anthracene	228	11.746	11.762	-0.016	96	82032	1.00	2.11	
22 Chrysene	228	11.784	11.805	-0.021	99	75781	1.00	2.04	
23 Benzo[b]fluoranthene	252	13.025	13.041	-0.016	97	112338	1.00	2.48	
24 Benzo[k]fluoranthene	252	13.057	13.078	-0.021	96	77325	1.00	1.75	
25 Benzo[a]pyrene	252	13.452	13.469	-0.017	98	85682	1.00	2.04	
26 Indeno[1,2,3-cd]pyrene	276	15.009	15.025	-0.016	96	85404	1.00	1.44	
27 Dibenz(a,h)anthracene	278	15.025	15.041	-0.016	95	54944	1.00	1.07	
28 Benzo[g,h,i]perylene	276	15.378	15.399	-0.021	95	70964	1.00	1.45	

**QC Flag Legend**

Processing Flags

NC - Not Calibrated

**Reagents:**

SM-LLISTD\_00128

Amount Added: 10.00

Units: uL

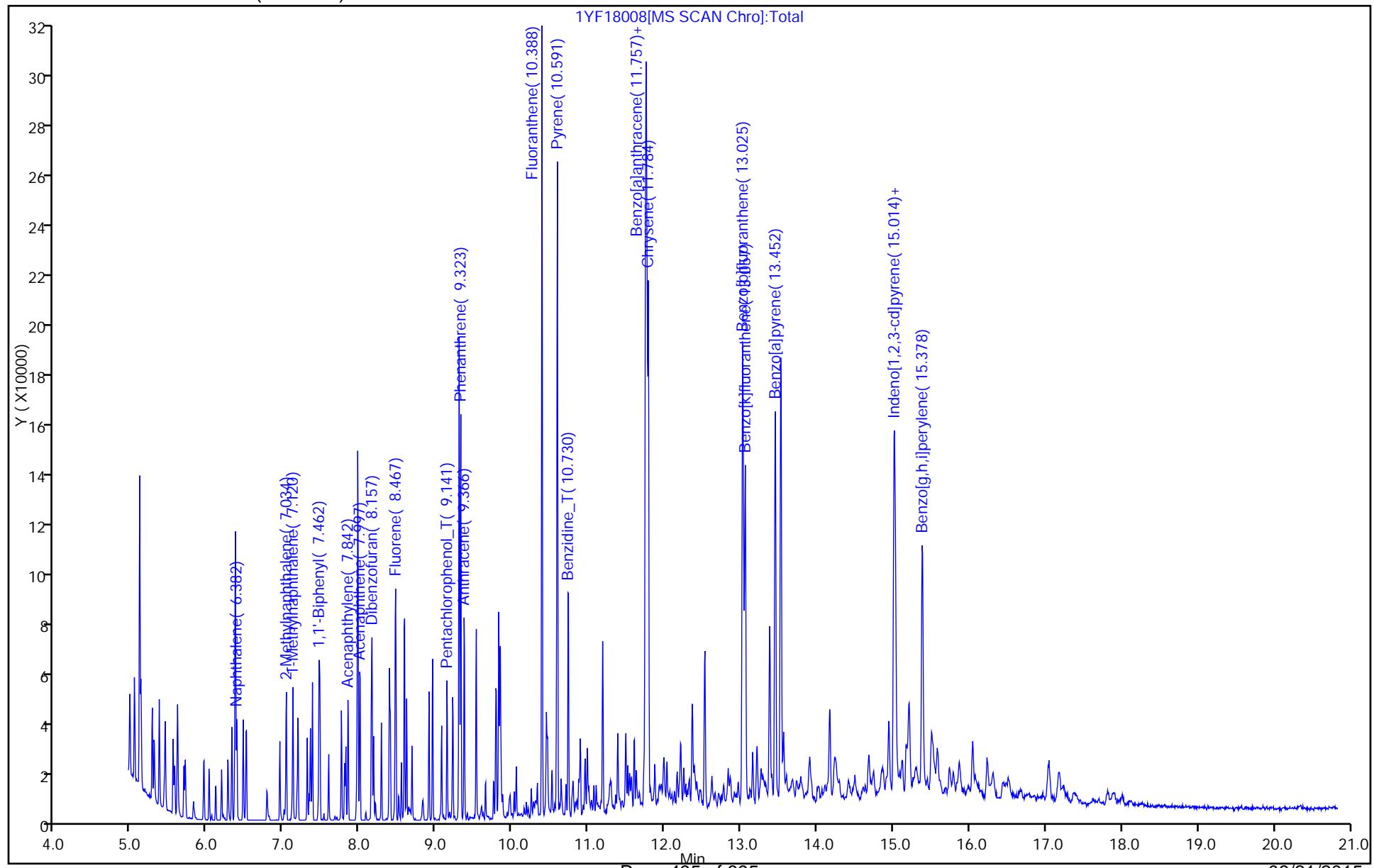
Run Reagent

Report Date: 19-Aug-2015 11:22:34

Chrom Revision: 2.2 23-Jul-2015 08:26:08

## TestAmerica Savannah

Data File: \\ChromNA\\Savannah\\ChromData\CMSY\\20150818-22358.b\\1YF18008.D  
 Injection Date: 18-Aug-2015 14:59:30 Instrument ID: CMSY  
 Lims ID: 680-115692-A-1-C MSD Operator ID: LIMS import  
 Client ID: CV0511NN-CS-6 Worklist Smp#: 8  
 Injection Vol: 2.0 ul Dil. Factor: 10.0000 ALS Bottle#: 8  
 Method: 8270D\_LLPAH\_MSY Limit Group: 8270D\_LL\_PAH  
 Column: Restek RXi-5Sil MS ( 0.25 mm)



## GC/MS SEMI VOA ANALYSIS RUN LOG

Lab Name: TestAmerica Savannah Job No.: 680-115692-1  
SDG No.: 680-115692-01  
Instrument ID: CMSD Start Date: 08/13/2015 17:48  
Analysis Batch Number: 396042 End Date: 08/13/2015 21:39

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
DFTPP 680-396042/1		08/13/2015 17:48	1	1DF13101.D	RXi- 5Sil MS 0.25 (mm)
IC 680-396042/2		08/13/2015 18:16	1	1DF13002.D	RXi- 5Sil MS 0.25 (mm)
IC 680-396042/3		08/13/2015 18:45	1	1DF13003.D	RXi- 5Sil MS 0.25 (mm)
ICIS 680-396042/4		08/13/2015 19:14	1	1DF13004.D	RXi- 5Sil MS 0.25 (mm)
IC 680-396042/5		08/13/2015 19:43	1	1DF13005.D	RXi- 5Sil MS 0.25 (mm)
IC 680-396042/6		08/13/2015 20:12	1	1DF13006.D	RXi- 5Sil MS 0.25 (mm)
IC 680-396042/7		08/13/2015 20:41	1	1DF13007.D	RXi- 5Sil MS 0.25 (mm)
IC 680-396042/8		08/13/2015 21:10	1	1DF13008.D	RXi- 5Sil MS 0.25 (mm)
ICV 680-396042/9		08/13/2015 21:39	1	1DF13009.D	RXi- 5Sil MS 0.25 (mm)

## GC/MS SEMI VOA ANALYSIS RUN LOG

Lab Name: TestAmerica Savannah Job No.: 680-115692-1  
SDG No.: 680-115692-01  
Instrument ID: CMSD Start Date: 08/18/2015 12:12  
Analysis Batch Number: 396705 End Date: 08/18/2015 15:14

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
DFTPP 680-396705/1		08/18/2015 12:12	1	1DF18001.D	RXi- 5Sil MS 0.25 (mm)
CCVIS 680-396705/2		08/18/2015 13:17	1	1DF18002.D	RXi- 5Sil MS 0.25 (mm)
RL 680-396705/3		08/18/2015 13:46	1		RXi- 5Sil MS 0.25 (mm)
ZZZZZ		08/18/2015 14:16	1		RXi- 5Sil MS 0.25 (mm)
680-115692-19	CV0511BBB-CS-6	08/18/2015 14:45	1	1DF18005.D	RXi- 5Sil MS 0.25 (mm)
680-115692-20	CV0511BBB-CS-12	08/18/2015 15:14	10	1DF18006.D	RXi- 5Sil MS 0.25 (mm)

## GC/MS SEMI VOA ANALYSIS RUN LOG

Lab Name: TestAmerica Savannah Job No.: 680-115692-1  
SDG No.: 680-115692-01  
Instrument ID: CMSK Start Date: 08/13/2015 17:06  
Analysis Batch Number: 396036 End Date: 08/13/2015 20:38

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
DFTPP 680-396036/1		08/13/2015 17:06	1	1KF13001.D	RXi- 5Sil MS 0.25 (mm)
IC 680-396036/2		08/13/2015 17:33	1	1KF13002.D	RXi- 5Sil MS 0.25 (mm)
IC 680-396036/3		08/13/2015 17:59	1	1KF13003.D	RXi- 5Sil MS 0.25 (mm)
ICIS 680-396036/4		08/13/2015 18:26	1	1KF13004.D	RXi- 5Sil MS 0.25 (mm)
IC 680-396036/5		08/13/2015 18:52	1	1KF13005.D	RXi- 5Sil MS 0.25 (mm)
IC 680-396036/6		08/13/2015 19:19	1	1KF13006.D	RXi- 5Sil MS 0.25 (mm)
IC 680-396036/7		08/13/2015 19:45	1	1KF13007.D	RXi- 5Sil MS 0.25 (mm)
IC 680-396036/8		08/13/2015 20:12	1	1KF13008.D	RXi- 5Sil MS 0.25 (mm)
ICV 680-396036/9 CCV		08/13/2015 20:38	1	1KF13009.D	RXi- 5Sil MS 0.25 (mm)

## GC/MS SEMI VOA ANALYSIS RUN LOG

Lab Name: TestAmerica Savannah Job No.: 680-115692-1  
SDG No.: 680-115692-01  
Instrument ID: CMSK Start Date: 08/19/2015 11:48  
Analysis Batch Number: 396964 End Date: 08/19/2015 21:38

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
DFTPP 680-396964/1		08/19/2015 11:48	1	1KH19001.D	RXi- 5Sil MS 0.25 (mm)
CCVIS 680-396964/2		08/19/2015 12:12	1	1KH19002.D	RXi- 5Sil MS 0.25 (mm)
RL 680-396964/3		08/19/2015 12:36	1		RXi- 5Sil MS 0.25 (mm)
ZZZZZ		08/19/2015 13:00	1		RXi- 5Sil MS 0.25 (mm)
ZZZZZ		08/19/2015 13:24	1		RXi- 5Sil MS 0.25 (mm)
ZZZZZ		08/19/2015 14:00	1		RXi- 5Sil MS 0.25 (mm)
ZZZZZ		08/19/2015 14:24	1		RXi- 5Sil MS 0.25 (mm)
ZZZZZ		08/19/2015 14:48	1		RXi- 5Sil MS 0.25 (mm)
ZZZZZ		08/19/2015 15:12	1		RXi- 5Sil MS 0.25 (mm)
ZZZZZ		08/19/2015 15:36	1		RXi- 5Sil MS 0.25 (mm)
ZZZZZ		08/19/2015 16:01	1		RXi- 5Sil MS 0.25 (mm)
ZZZZZ		08/19/2015 16:25	1		RXi- 5Sil MS 0.25 (mm)
ZZZZZ		08/19/2015 16:49	1		RXi- 5Sil MS 0.25 (mm)
ZZZZZ		08/19/2015 17:14	1		RXi- 5Sil MS 0.25 (mm)
ZZZZZ		08/19/2015 17:38	1		RXi- 5Sil MS 0.25 (mm)
ZZZZZ		08/19/2015 18:02	1		RXi- 5Sil MS 0.25 (mm)
ZZZZZ		08/19/2015 18:26	10		RXi- 5Sil MS 0.25 (mm)
ZZZZZ		08/19/2015 18:50	10		RXi- 5Sil MS 0.25 (mm)
ZZZZZ		08/19/2015 19:14	10		RXi- 5Sil MS 0.25 (mm)
ZZZZZ		08/19/2015 19:38	1		RXi- 5Sil MS 0.25 (mm)
ZZZZZ		08/19/2015 20:02	1		RXi- 5Sil MS 0.25 (mm)
ZZZZZ		08/19/2015 20:26	1		RXi- 5Sil MS 0.25 (mm)
ZZZZZ		08/19/2015 20:50	10		RXi- 5Sil MS 0.25 (mm)
ZZZZZ		08/19/2015 21:14	10		RXi- 5Sil MS 0.25 (mm)
680-115692-18	CV0511HHH-CS-24	08/19/2015 21:38	10	1KH19025.D	RXi- 5Sil MS 0.25 (mm)

## GC/MS SEMI VOA ANALYSIS RUN LOG

Lab Name: TestAmerica Savannah Job No.: 680-115692-1  
SDG No.: 680-115692-01  
Instrument ID: CMSY Start Date: 08/12/2015 12:39  
Analysis Batch Number: 395667 End Date: 08/12/2015 17:06

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
DFTPP 680-395667/1		08/12/2015 12:39	1	1YF12001.D	RXi- 5Sil MS 0.25 (mm)
IC 680-395667/2		08/12/2015 13:48	1	1YF12002.D	RXi- 5Sil MS 0.25 (mm)
IC 680-395667/3		08/12/2015 14:16	1	1YF12003.D	RXi- 5Sil MS 0.25 (mm)
ICIS 680-395667/4		08/12/2015 14:44	1	1YF12004.D	RXi- 5Sil MS 0.25 (mm)
IC 680-395667/5		08/12/2015 15:12	1	1YF12005.D	RXi- 5Sil MS 0.25 (mm)
IC 680-395667/6		08/12/2015 15:40	1	1YF12006.D	RXi- 5Sil MS 0.25 (mm)
IC 680-395667/7		08/12/2015 16:09	1	1YF12007.D	RXi- 5Sil MS 0.25 (mm)
IC 680-395667/8		08/12/2015 16:37	1	1YF12008.D	RXi- 5Sil MS 0.25 (mm)
ICV 680-395667/9		08/12/2015 17:06	1	1YF12009.D	RXi- 5Sil MS 0.25 (mm)

## GC/MS SEMI VOA ANALYSIS RUN LOG

Lab Name: TestAmerica Savannah Job No.: 680-115692-1  
SDG No.: 680-115692-01  
Instrument ID: CMSY Start Date: 08/18/2015 11:21  
Analysis Batch Number: 396712 End Date: 08/18/2015 23:30

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
DFTPP 680-396712/1		08/18/2015 11:21	1	1YF18001.D	RXi- 5Sil MS 0.25 (mm)
CCVIS 680-396712/2		08/18/2015 12:10	1	1YF18102.D	RXi- 5Sil MS 0.25 (mm)
RL 680-396712/3		08/18/2015 12:38	1		RXi- 5Sil MS 0.25 (mm)
MB 680-396525/21-A		08/18/2015 13:34	1	1YF18005.D	RXi- 5Sil MS 0.25 (mm)
LCS 680-396525/22-A		08/18/2015 14:03	1	1YF18006.D	RXi- 5Sil MS 0.25 (mm)
680-115692-1 MS	CV0511NN-CS-6 MS	08/18/2015 14:31	10	1YF18007.D	RXi- 5Sil MS 0.25 (mm)
680-115692-1 MSD	CV0511NN-CS-6 MSD	08/18/2015 14:59	10	1YF18008.D	RXi- 5Sil MS 0.25 (mm)
680-115692-1	CV0511NN-CS-6	08/18/2015 15:27	10	1YF18009.D	RXi- 5Sil MS 0.25 (mm)
680-115692-2	CV0511NN-CSD-6	08/18/2015 15:56	10	1YF18010.D	RXi- 5Sil MS 0.25 (mm)
680-115692-3	CV0511NN-CS-12	08/18/2015 16:25	1	1YF18011.D	RXi- 5Sil MS 0.25 (mm)
680-115692-4	CV0511NN-CS-18	08/18/2015 16:54	1	1YF18012.D	RXi- 5Sil MS 0.25 (mm)
680-115692-5	CV0511NN-CS-24	08/18/2015 17:22	1	1YF18013.D	RXi- 5Sil MS 0.25 (mm)
680-115692-6	CV0511TT-CS-6	08/18/2015 17:51	10	1YF18014.D	RXi- 5Sil MS 0.25 (mm)
680-115692-7	CV0511TT-CS-12	08/18/2015 18:19	10	1YF18015.D	RXi- 5Sil MS 0.25 (mm)
680-115692-8	CV0511TT-CS-18	08/18/2015 18:48	10	1YF18016.D	RXi- 5Sil MS 0.25 (mm)
680-115692-9	CV0511TT-CS-24	08/18/2015 19:17	10	1YF18017.D	RXi- 5Sil MS 0.25 (mm)
680-115692-10	CV0511SS-CS-6	08/18/2015 19:45	10	1YF18018.D	RXi- 5Sil MS 0.25 (mm)
680-115692-11	CV0511SS-CS-12	08/18/2015 20:13	10	1YF18019.D	RXi- 5Sil MS 0.25 (mm)
680-115692-12	CV0511SS-CS-18	08/18/2015 20:42	10	1YF18020.D	RXi- 5Sil MS 0.25 (mm)
680-115692-13	CV0511SS-CS-24	08/18/2015 21:10	1	1YF18021.D	RXi- 5Sil MS 0.25 (mm)
680-115692-14	CV0511HHH-CS-6	08/18/2015 21:38	10	1YF18022.D	RXi- 5Sil MS 0.25 (mm)
680-115692-15	CV0511HHH-CSD-12	08/18/2015 22:06	10	1YF18023.D	RXi- 5Sil MS 0.25 (mm)
680-115692-16	CV0511HHH-CS-12	08/18/2015 22:34	10	1YF18024.D	RXi- 5Sil MS 0.25 (mm)
680-115692-17	CV0511HHH-CS-18	08/18/2015 23:02	10	1YF18025.D	RXi- 5Sil MS 0.25 (mm)
ZZZZZ		08/18/2015 23:30	10		RXi- 5Sil MS 0.25 (mm)

## GC/MS SEMI VOA BATCH WORKSHEET

Lab Name: TestAmerica Savannah

Job No.: 680-115692-1

SDG No.: 680-115692-01

Batch Number: 396525

Batch Start Date: 08/17/15 12:50

Batch Analyst: Vasquez, Juana M

Batch Method: 3546

Batch End Date: 08/17/15 13:20

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount	EX8270SPKL1 00033	LLBNAwkSUR 00091	AnalysisComment	
680-115692-A-1	CV0511NN-CS-6	3546, 8270D LL PAH	T	29.96 g	1 mL		1 mL		
680-115692-A-2	CV0511NN-CSD-6	3546, 8270D LL PAH	T	29.95 g	1 mL		1 mL		
680-115692-A-3	CV0511NN-CS-12	3546, 8270D LL PAH	T	30.17 g	1 mL		1 mL		
680-115692-A-4	CV0511NN-CS-18	3546, 8270D LL PAH	T	29.94 g	1 mL		1 mL		
680-115692-A-5	CV0511NN-CS-24	3546, 8270D LL PAH	T	30.01 g	1 mL		1 mL		
680-115692-A-6	CV0511TT-CS-6	3546, 8270D LL PAH	T	30.11 g	1 mL		1 mL		
680-115692-A-7	CV0511TT-CS-12	3546, 8270D LL PAH	T	30.19 g	1 mL		1 mL		
680-115692-A-8	CV0511TT-CS-18	3546, 8270D LL PAH	T	29.93 g	1 mL		1 mL		
680-115692-A-9	CV0511TT-CS-24	3546, 8270D LL PAH	T	30.06 g	1 mL		1 mL		
680-115692-A-10	CV0511SS-CS-6	3546, 8270D LL PAH	T	30.04 g	1 mL		1 mL		
680-115692-A-11	CV0511SS-CS-12	3546, 8270D LL PAH	T	30.31 g	1 mL		1 mL		
680-115692-A-12	CV0511SS-CS-18	3546, 8270D LL PAH	T	30.03 g	1 mL		1 mL		
680-115692-A-13	CV0511SS-CS-24	3546, 8270D LL PAH	T	30.10 g	1 mL		1 mL		
680-115692-A-14	CV0511HHH-CS-6	3546, 8270D LL PAH	T	30.13 g	1 mL		1 mL		
680-115692-A-15	CV0511HHH-CSD-12	3546, 8270D LL PAH	T	30.06 g	1 mL		1 mL		
680-115692-A-16	CV0511HHH-CS-12	3546, 8270D LL PAH	T	30.10 g	1 mL		1 mL		
680-115692-A-17	CV0511HHH-CS-18	3546, 8270D LL PAH	T	30.05 g	1 mL		1 mL		
680-115692-A-18	CV0511HHH-CS-24	3546, 8270D LL PAH	T	30.02 g	1 mL		1 mL		
680-115692-A-19	CV0511BBB-CS-6	3546, 8270D LL PAH	T	30.12 g	1 mL		1 mL		
680-115692-A-20	CV0511BBB-CS-12	3546, 8270D LL PAH	T	29.94 g	1 mL		1 mL		
MB 680-396525/21		3546, 8270D LL PAH		30.01 g	1 mL		1 mL		

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

8270D\_LL\_PAH

Page 1 of 3

## GC/MS SEMI VOA BATCH WORKSHEET

Lab Name: TestAmerica Savannah

Job No.: 680-115692-1

SDG No.: 680-115692-01

Batch Number: 396525

Batch Start Date: 08/17/15 12:50

Batch Analyst: Vasquez, Juana M

Batch Method: 3546

Batch End Date: 08/17/15 13:20

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount	EX8270SPKL1 00033	LLBNAwkSUR 00091	AnalysisComment	
LCS 680-396525/22		3546, 8270D LL PAH		30.07 g	1 mL	100 uL	1 mL	8270 LL SPK	
680-115692-A-1 MS	CV0511NN-CS-6	3546, 8270D LL PAH	T	30.00 g	1 mL	100 uL	1 mL	8270 LL SPK	
680-115692-A-1 MSD	CV0511NN-CS-6	3546, 8270D LL PAH	T	30.04 g	1 mL	100 uL	1 mL	8270 LL SPK	

## Batch Notes

Acetone Lot #	4170604
Balance ID	30
Batch Comment	8270_LL_PAH BoxLL 386
Concentration End Time	1634
Concentration Start Time	1539
Person's name who did the concentration	ALS
Exchange Solvent Lot #	4164293
Exchange Solvent Name	MECL2
Filter Paper Lot Number	4175205
Final Concentrator Volume	1 mL
MeCL2 Lot #	4170604
Microwave Oven ID	1
Microwave Start Time	1250
Microwave Stop Time	1320
Na2SO4 Lot Number	4132694
Ottawa Sand Lot #	3926035
Pipette ID	CGW3602
Person's name who did the prep	JV
Person who performed Spike	JV
Person who witnessed spiking	ALS
Vial Lot Number	65808

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

8270D\_LL\_PAH

Page 2 of 3

## GC/MS SEMI VOA BATCH WORKSHEET

Lab Name: TestAmerica Savannah Job No.: 680-115692-1  
SDG No.: 680-115692-01  
Batch Number: 396525 Batch Start Date: 08/17/15 12:50 Batch Analyst: Vasquez, Juana M  
Batch Method: 3546 Batch End Date: 08/17/15 13:20

Basis	Basis Description
T	Total/NA

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

# **METALS**

COVER PAGE  
METALS

Lab Name: TestAmerica Savannah \_\_\_\_\_ Job Number: 680-115692-1 \_\_\_\_\_

SDG No.: 680-115692-01 \_\_\_\_\_

Project: 35th Avenue Superfund Site \_\_\_\_\_

Client Sample ID	Lab Sample ID
CV0511NN-CS-6	680-115692-1
CV0511NN-CSD-6	680-115692-2
CV0511NN-CS-12	680-115692-3
CV0511NN-CS-18	680-115692-4
CV0511NN-CS-24	680-115692-5
CV0511TT-CS-6	680-115692-6
CV0511TT-CS-12	680-115692-7
CV0511TT-CS-18	680-115692-8
CV0511TT-CS-24	680-115692-9
CV0511SS-CS-6	680-115692-10
CV0511SS-CS-12	680-115692-11
CV0511SS-CS-18	680-115692-12
CV0511SS-CS-24	680-115692-13
CV0511HHH-CS-6	680-115692-14
CV0511HHH-CSD-12	680-115692-15
CV0511HHH-CS-12	680-115692-16
CV0511HHH-CS-18	680-115692-17
CV0511HHH-CS-24	680-115692-18
CV0511BBB-CS-6	680-115692-19
CV0511BBB-CS-12	680-115692-20

Comments:

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1A-IN  
INORGANIC ANALYSIS DATA SHEET  
METALS

Client Sample ID: CV0511NN-CS-6

Lab Sample ID: 680-115692-1

Lab Name: TestAmerica Savannah

Job No.: 680-115692-1

SDG ID.: 680-115692-01

Matrix: Solid

Date Sampled: 08/10/2015 14:00

Reporting Basis DRY

Date Received: 08/15/2015 10:50

% Solids: 88.8

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
7440-38-2	Arsenic	23	2.2	0.87	mg/Kg		F1 F2	1	6010C
7439-92-1	Lead	40	1.1	0.37	mg/Kg		F1	1	6010C

1A-IN  
INORGANIC ANALYSIS DATA SHEET  
METALS

Client Sample ID: CV0511NN-CSD-6

Lab Sample ID: 680-115692-2

Lab Name: TestAmerica Savannah

Job No.: 680-115692-1

SDG ID.: 680-115692-01

Matrix: Solid

Date Sampled: 08/10/2015 14:00

Reporting Basis DRY

Date Received: 08/15/2015 10:50

% Solids: 88.0

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
7440-38-2	Arsenic	25	1.9	0.77	mg/Kg			1	6010C
7439-92-1	Lead	95	9.6	3.3	mg/Kg			10	6010C

1A-IN  
INORGANIC ANALYSIS DATA SHEET  
METALS

Client Sample ID: CV0511NN-CS-12

Lab Sample ID: 680-115692-3

Lab Name: TestAmerica Savannah

Job No.: 680-115692-1

SDG ID.: 680-115692-01

Matrix: Solid

Date Sampled: 08/10/2015 14:05

Reporting Basis DRY

Date Received: 08/15/2015 10:50

% Solids: 85.0

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
7440-38-2	Arsenic	16	2.2	0.89	mg/Kg			1	6010C
7439-92-1	Lead	27	1.1	0.38	mg/Kg			1	6010C

1A-IN  
INORGANIC ANALYSIS DATA SHEET  
METALS

Client Sample ID: CV0511NN-CS-18

Lab Sample ID: 680-115692-4

Lab Name: TestAmerica Savannah

Job No.: 680-115692-1

SDG ID.: 680-115692-01

Matrix: Solid

Date Sampled: 08/10/2015 14:10

Reporting Basis DRY

Date Received: 08/15/2015 10:50

% Solids: 81.8

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
7440-38-2	Arsenic	19	2.1	0.85	mg/Kg			1	6010C
7439-92-1	Lead	59	1.1	0.36	mg/Kg			1	6010C

1A-IN  
INORGANIC ANALYSIS DATA SHEET  
METALS

Client Sample ID: CV0511NN-CS-24

Lab Sample ID: 680-115692-5

Lab Name: TestAmerica Savannah

Job No.: 680-115692-1

SDG ID.: 680-115692-01

Matrix: Solid

Date Sampled: 08/10/2015 14:15

Reporting Basis DRY

Date Received: 08/15/2015 10:50

% Solids: 82.2

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
7440-38-2	Arsenic	4.4	2.2	0.87	mg/Kg			1	6010C
7439-92-1	Lead	19	1.1	0.37	mg/Kg			1	6010C

1A-IN  
INORGANIC ANALYSIS DATA SHEET  
METALS

Client Sample ID: CV0511TT-CS-6

Lab Sample ID: 680-115692-6

Lab Name: TestAmerica Savannah

Job No.: 680-115692-1

SDG ID.: 680-115692-01

Matrix: Solid

Date Sampled: 08/10/2015 14:45

Reporting Basis DRY

Date Received: 08/15/2015 10:50

% Solids: 88.7

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
7440-38-2	Arsenic	14	2.0	0.79	mg/Kg			1	6010C
7439-92-1	Lead	46	0.99	0.34	mg/Kg			1	6010C

1A-IN  
INORGANIC ANALYSIS DATA SHEET  
METALS

Client Sample ID: CV0511TT-CS-12

Lab Sample ID: 680-115692-7

Lab Name: TestAmerica Savannah

Job No.: 680-115692-1

SDG ID.: 680-115692-01

Matrix: Solid

Date Sampled: 08/10/2015 14:50

Reporting Basis DRY

Date Received: 08/15/2015 10:50

% Solids: 86.2

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
7440-38-2	Arsenic	16	2.0	0.78	mg/Kg			1	6010C
7439-92-1	Lead	110	0.98	0.33	mg/Kg			1	6010C

1A-IN  
INORGANIC ANALYSIS DATA SHEET  
METALS

Client Sample ID: CV0511TT-CS-18

Lab Sample ID: 680-115692-8

Lab Name: TestAmerica Savannah

Job No.: 680-115692-1

SDG ID.: 680-115692-01

Matrix: Solid

Date Sampled: 08/10/2015 14:55

Reporting Basis DRY

Date Received: 08/15/2015 10:50

% Solids: 82.9

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
7440-38-2	Arsenic	12	2.0	0.81	mg/Kg			1	6010C
7439-92-1	Lead	63	1.0	0.34	mg/Kg			1	6010C

1A-IN  
INORGANIC ANALYSIS DATA SHEET  
METALS

Client Sample ID: CV0511TT-CS-24

Lab Sample ID: 680-115692-9

Lab Name: TestAmerica Savannah

Job No.: 680-115692-1

SDG ID.: 680-115692-01

Matrix: Solid

Date Sampled: 08/10/2015 15:00

Reporting Basis DRY

Date Received: 08/15/2015 10:50

% Solids: 79.3

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
7440-38-2	Arsenic	12	2.3	0.93	mg/Kg			1	6010C
7439-92-1	Lead	80	1.2	0.40	mg/Kg			1	6010C

1A-IN  
INORGANIC ANALYSIS DATA SHEET  
METALS

Client Sample ID: CV0511SS-CS-6

Lab Sample ID: 680-115692-10

Lab Name: TestAmerica Savannah

Job No.: 680-115692-1

SDG ID.: 680-115692-01

Matrix: Solid

Date Sampled: 08/10/2015 15:35

Reporting Basis DRY

Date Received: 08/15/2015 10:50

% Solids: 86.5

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
7440-38-2	Arsenic	16	1.9	0.78	mg/Kg			1	6010C
7439-92-1	Lead	73	0.97	0.33	mg/Kg			1	6010C

1A-IN  
INORGANIC ANALYSIS DATA SHEET  
METALS

Client Sample ID: CV0511SS-CS-12

Lab Sample ID: 680-115692-11

Lab Name: TestAmerica Savannah

Job No.: 680-115692-1

SDG ID.: 680-115692-01

Matrix: Solid

Date Sampled: 08/10/2015 15:40

Reporting Basis DRY

Date Received: 08/15/2015 10:50

% Solids: 86.4

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
7440-38-2	Arsenic	15	2.0	0.81	mg/Kg			1	6010C
7439-92-1	Lead	130	10	3.4	mg/Kg			10	6010C

1A-IN  
INORGANIC ANALYSIS DATA SHEET  
METALS

Client Sample ID: CV0511SS-CS-18

Lab Sample ID: 680-115692-12

Lab Name: TestAmerica Savannah

Job No.: 680-115692-1

SDG ID.: 680-115692-01

Matrix: Solid

Date Sampled: 08/10/2015 15:45

Reporting Basis DRY

Date Received: 08/15/2015 10:50

% Solids: 84.0

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
7440-38-2	Arsenic	17	2.0	0.81	mg/Kg			1	6010C
7439-92-1	Lead	130	1.0	0.35	mg/Kg			1	6010C

1A-IN  
INORGANIC ANALYSIS DATA SHEET  
METALS

Client Sample ID: CV0511SS-CS-24

Lab Sample ID: 680-115692-13

Lab Name: TestAmerica Savannah

Job No.: 680-115692-1

SDG ID.: 680-115692-01

Matrix: Solid

Date Sampled: 08/10/2015 15:50

Reporting Basis DRY

Date Received: 08/15/2015 10:50

% Solids: 81.5

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
7440-38-2	Arsenic	15	2.2	0.86	mg/Kg			1	6010C
7439-92-1	Lead	40	1.1	0.37	mg/Kg			1	6010C

1A-IN  
INORGANIC ANALYSIS DATA SHEET  
METALS

Client Sample ID: CV0511HHH-CS-6

Lab Sample ID: 680-115692-14

Lab Name: TestAmerica Savannah

Job No.: 680-115692-1

SDG ID.: 680-115692-01

Matrix: Solid

Date Sampled: 08/11/2015 08:40

Reporting Basis DRY

Date Received: 08/15/2015 10:50

% Solids: 90.5

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
7440-38-2	Arsenic	11	1.9	0.76	mg/Kg			1	6010C
7439-92-1	Lead	89	0.94	0.32	mg/Kg			1	6010C

1A-IN  
INORGANIC ANALYSIS DATA SHEET  
METALS

Client Sample ID: CV0511HHH-CSD-12

Lab Sample ID: 680-115692-15

Lab Name: TestAmerica Savannah

Job No.: 680-115692-1

SDG ID.: 680-115692-01

Matrix: Solid

Date Sampled: 08/11/2015 08:45

Reporting Basis DRY

Date Received: 08/15/2015 10:50

% Solids: 85.6

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
7440-38-2	Arsenic	13	2.0	0.81	mg/Kg			1	6010C
7439-92-1	Lead	50	1.0	0.35	mg/Kg			1	6010C

1A-IN  
INORGANIC ANALYSIS DATA SHEET  
METALS

Client Sample ID: CV0511HHH-CS-12

Lab Sample ID: 680-115692-16

Lab Name: TestAmerica Savannah

Job No.: 680-115692-1

SDG ID.: 680-115692-01

Matrix: Solid

Date Sampled: 08/11/2015 08:45

Reporting Basis DRY

Date Received: 08/15/2015 10:50

% Solids: 85.8

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
7440-38-2	Arsenic	19	2.1	0.84	mg/Kg			1	6010C
7439-92-1	Lead	54	1.1	0.36	mg/Kg			1	6010C

1A-IN  
INORGANIC ANALYSIS DATA SHEET  
METALS

Client Sample ID: CV0511HHH-CS-18

Lab Sample ID: 680-115692-17

Lab Name: TestAmerica Savannah

Job No.: 680-115692-1

SDG ID.: 680-115692-01

Matrix: Solid

Date Sampled: 08/11/2015 08:50

Reporting Basis DRY

Date Received: 08/15/2015 10:50

% Solids: 84.4

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
7440-38-2	Arsenic	14	2.2	0.87	mg/Kg			1	6010C
7439-92-1	Lead	54	1.1	0.37	mg/Kg			1	6010C

1A-IN  
INORGANIC ANALYSIS DATA SHEET  
METALS

Client Sample ID: CV0511HHH-CS-24

Lab Sample ID: 680-115692-18

Lab Name: TestAmerica Savannah

Job No.: 680-115692-1

SDG ID.: 680-115692-01

Matrix: Solid

Date Sampled: 08/11/2015 08:55

Reporting Basis DRY

Date Received: 08/15/2015 10:50

% Solids: 82.4

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
7440-38-2	Arsenic	19	2.2	0.88	mg/Kg			1	6010C
7439-92-1	Lead	79	11	3.8	mg/Kg			10	6010C

1A-IN  
INORGANIC ANALYSIS DATA SHEET  
METALS

Client Sample ID: CV0511BBB-CS-6

Lab Sample ID: 680-115692-19

Lab Name: TestAmerica Savannah

Job No.: 680-115692-1

SDG ID.: 680-115692-01

Matrix: Solid

Date Sampled: 08/11/2015 09:30

Reporting Basis DRY

Date Received: 08/15/2015 10:50

% Solids: 95.9

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
7440-38-2	Arsenic	2.7	1.8	0.74	mg/Kg			1	6010C
7439-92-1	Lead	11	0.92	0.31	mg/Kg			1	6010C

1A-IN  
INORGANIC ANALYSIS DATA SHEET  
METALS

Client Sample ID: CV0511BBB-CS-12

Lab Sample ID: 680-115692-20

Lab Name: TestAmerica Savannah

Job No.: 680-115692-1

SDG ID.: 680-115692-01

Matrix: Solid

Date Sampled: 08/11/2015 09:35

Reporting Basis DRY

Date Received: 08/15/2015 10:50

% Solids: 87.0

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
7440-38-2	Arsenic	15	2.1	0.84	mg/Kg			1	6010C
7439-92-1	Lead	100	1.0	0.36	mg/Kg			1	6010C

2A-IN  
CALIBRATION VERIFICATIONS  
METALS

Lab Name: TestAmerica Savannah Job No.: 680-115692-1  
SDG No.: 680-115692-01  
ICV Source: P\_ICV\_wk\_00238 Concentration Units: ug/L  
CCV Source: P\_CCV\_wk\_00138

Analyte	ICV 680-397264/4 08/19/2015 13:59				CCV 680-397264/135 08/20/2015 01:42				CCV 680-397264/147 08/20/2015 02:37			
	Found	C	True	%R	Found	C	True	%R	Found	C	True	%R
<b>Arsenic</b>	981		1000	98	478		500	96	469		500	94
<b>Lead</b>	995		1000	99	481		500	96	480		500	96

Note! Calculations are performed before rounding to avoid round-off errors in calculated results.  
Italicized analytes were not requested for this sequence.

2A-IN  
CALIBRATION VERIFICATIONS  
METALS

Lab Name: TestAmerica Savannah Job No.: 680-115692-1  
SDG No.: 680-115692-01  
ICV Source: P\_ICV\_wk\_00238 Concentration Units: ug/L  
CCV Source: P\_CCV\_wk\_00138

Analyte	CCV 680-397264/159 08/20/2015 03:33				CCV 680-397264/171 08/20/2015 04:28				CCV 680-397264/264 08/20/2015 12:17			
	Found	C	True	%R	Found	C	True	%R	Found	C	True	%R
<b>Arsenic</b>	468		500	94	472		500	94	485		500	97
<b>Lead</b>	474		500	95	484		500	97	488		500	98

Note! Calculations are performed before rounding to avoid round-off errors in calculated results.  
Italicized analytes were not requested for this sequence.

2A-IN  
CALIBRATION VERIFICATIONS  
METALS

Lab Name: TestAmerica Savannah Job No.: 680-115692-1  
SDG No.: 680-115692-01  
ICV Source: P\_ICV\_wk\_00238 Concentration Units: ug/L  
CCV Source: P\_CCV\_wk\_00138

Analyte	CCV 680-397264/276 08/20/2015 13:02											
	Found	C	True	%R	Found	C	True	%R	Found	C	True	%R
<b>Arsenic</b>	488		500	98								
<b>Lead</b>	482		500	96								

Note! Calculations are performed before rounding to avoid round-off errors in calculated results.  
Italicized analytes were not requested for this sequence.

2B-IN  
CRQL CHECK STANDARD  
METALS

Lab Name: TestAmerica Savannah Job No.: 680-115692-1

SDG No.: 680-115692-01

Method: 6010C Instrument ID: ICPE

Lab Sample ID: CRI 680-397264/7 Concentration Units: ug/L

CRQL Check Standard Source: P\_RL\_Int\_00038

Analyte	CRQL Check Standard				
	True	Found	Qualifiers	%R(1)	Limits
Arsenic	20.0	18.6	J	93	70-130
Lead	10.0	9.96	J	100	70-130

Lab Sample ID: CRI 680-397264/282 Concentration Units: ug/L

CRQL Check Standard Source: P\_RL\_Int\_00038

Analyte	CRQL Check Standard				
	True	Found	Qualifiers	%R(1)	Limits
Arsenic	20.0	17.1	J	86	70-130
Lead	10.0	8.53	J	85	70-130

Note! Calculations are performed before rounding to avoid round-off errors in calculated results.

FORM IIB-IN

3-IN  
INSTRUMENT BLANKS  
METALS

Lab Name: TestAmerica Savannah

Job No.: 680-115692-1

SDG No.: 680-115692-01

Concentration Units: ug/L

Analyte	RL	ICBIS 680-397264/5 08/19/2015 14:03		CCB 680-397264/136 08/20/2015 01:47		CCB 680-397264/148 08/20/2015 02:42		CCB 680-397264/160 08/20/2015 03:37	
		Found	C	Found	C	Found	C	Found	C
<b>Arsenic</b>	20	20	U	20	U	20	U	20	U
<b>Lead</b>	10	10	U	10	U	10	U	10	U

*Italicized analytes were not requested for this sequence.*

3-IN  
INSTRUMENT BLANKS  
METALS

Lab Name: TestAmerica Savannah

Job No.: 680-115692-1

SDG No.: 680-115692-01

Concentration Units: ug/L

Analyte	RL	CCB 680-397264/172 08/20/2015 04:33		CCB 680-397264/265 08/20/2015 12:20		CCB 680-397264/277 08/20/2015 13:05			
		Found	C	Found	C	Found	C	Found	C
<b>Arsenic</b>	20	20	U	20	U	20	U		
<b>Lead</b>	10	10	U	10	U	10	U		

*Italicized analytes were not requested for this sequence.*

3-IN  
METHOD BLANK  
METALS

Lab Name: TestAmerica Savannah Job No.: 680-115692-1

SDG No.: 680-115692-01

Concentration Units: mg/Kg Lab Sample ID: MB 680-396577/1-A

Instrument Code: ICPE Batch No.: 397264

CAS No.	Analyte	Concentration	C	Q	Method
7440-38-2	Arsenic	1.8	U		6010C
7439-92-1	Lead	0.89	U		6010C

4A-IN  
INTERFERENCE CHECK STANDARD  
METALS

Lab Name: TestAmerica Savannah Job No.: 680-115692-1  
SDG No.: 680-115692-01  
Lab Sample ID: ICSA 680-397264/8 Instrument ID: ICPE  
Lab File ID: E08192015F.csv ICS Source: P\_ICSA\_wk\_00044  
Concentration Units: ug/L

Analyte	True Solution A	Found Solution A	Percent Recovery
<b>Arsenic</b>		<b>5.44</b>	
<b>Lead</b>		<b>-5.14</b>	
Aluminum	500000	486521	97
Antimony		-2.30	
Barium		1.12	
Beryllium		-0.146	
Boron		-4.27	
Cadmium		0.219	
Calcium	500000	485875	97
Chromium		0.0553	
Cobalt		-0.0616	
Copper		2.20	
Iron	200000	184488	92
Magnesium	500000	482400	96
Manganese		1.70	
Molybdenum		0.513	
Nickel		1.16	
Potassium		0.981	
Selenium		8.76	
Silver		-0.0319	
Sodium		-254	
Strontium		-9.04	
Thallium		3.56	
Tin		0.361	
Titanium		2.82	
Vanadium		2.04	
Zinc		3.74	

Calculations are performed before rounding to avoid round-off errors in calculated results.

FORM IVA-IN

4A-IN  
INTERFERENCE CHECK STANDARD  
METALS

Lab Name: TestAmerica Savannah Job No.: 680-115692-1  
SDG No.: 680-115692-01  
Lab Sample ID: ICSAB 680-397264/9 Instrument ID: ICPE  
Lab File ID: E08192015F.csv ICS Source: P\_ICSAB\_wk\_00060  
Concentration Units: ug/L

Analyte	True Solution AB	Found Solution AB	Percent Recovery
<b>Arsenic</b>	<b>100</b>	<b>109</b>	<b>109</b>
<b>Lead</b>	<b>50.0</b>	<b>40.7</b>	<b>81</b>
Aluminum	500000	508003	102
Antimony	600	646	108
Barium	500	513	103
Beryllium	500	499	100
Boron		-6.09	
Cadmium	1000	971	97
Calcium	500000	507827	102
Chromium	500	511	102
Cobalt	500	482	96
Copper	500	546	109
Iron	200000	193045	97
Magnesium	500000	504101	101
Manganese	500	517	103
Molybdenum	1000	1054	105
Nickel	1000	953	95
Potassium		1.08	
Selenium	50.0	52.8	106
Silver	200	219	109
Sodium		-534	
Strontium		-11.6	
Thallium	100	101	101
Tin	1000	1073	107
Titanium		2.93	
Vanadium	500	502	100
Zinc	1000	958	96

Calculations are performed before rounding to avoid round-off errors in calculated results.

FORM IVA-IN

5A-IN  
MATRIX SPIKE SAMPLE RECOVERY  
METALS

Client ID: CV0511NN-CS-6 MS

Lab ID: 680-115692-1 MS

Lab Name: TestAmerica Savannah

Job No.: 680-115692-1

SDG No.: 680-115692-01

Matrix: Solid

Concentration Units: mg/Kg

% Solids: 88.8

Analyte	SSR C	Sample Result (SR) C	Spike Added (SA)	%R	Control Limit %R	Q	Method
Arsenic	29.3	23	10.7	59	75-125	F1	6010C
Lead	96.3	40	53.6	106	75-125		6010C

SSR = Spiked Sample Result

Calculations are performed before rounding to avoid round-off errors in calculated results.  
Note - Results and Reporting Limits have been adjusted for dry weight.

FORM VA - IN

5A-IN  
MATRIX SPIKE DUPLICATE SAMPLE RECOVERY  
METALS

Client ID: CV0511NN-CS-6 MSD

Lab ID: 680-115692-1 MSD

Lab Name: TestAmerica Savannah

Job No.: 680-115692-1

SDG No.: 680-115692-01

Matrix: Solid

Concentration Units: mg/Kg

% Solids: 88.8

Analyte	(SDR) C	Spike Added (SA)	%R	Control Limit %R	RPD	RPD Limit	Q	Method
Arsenic	40.9	10.5	171	75-125	33	20	F1 F2	6010C
Lead	113	52.6	140	75-125	16	20	F1	6010C

SDR = Sample Duplicate Result

Calculations are performed before rounding to avoid round-off errors in calculated results.  
Note - Results and Reporting Limits have been adjusted for dry weight.

FORM VD - IN

5B-IN  
POST DIGESTION SPIKE SAMPLE RECOVERY  
METALS

Client ID: CV0511NN-CS-6 PDS

Lab ID: 680-115692-1 PDS

Lab Name: TestAmerica Savannah

Job No.: 680-115692-1

SDG No.: 680-115692-01

Matrix: Solid

Concentration Units: mg/Kg

Analyte	SSR C	Sample Result (SR) C	Spike Added (SA)	%R	Control Limit %R	Q	Method
Arsenic	32.0	23	10.8	84	80-120		6010C
Lead	48.1	40	10.8	79	80-120	W	6010C

SSR = Spiked Sample Result

Calculations are performed before rounding to avoid round-off errors in calculated results.  
Note - Results and Reporting Limits have been adjusted for dry weight.

FORM VB - IN

7A-IN  
LAB CONTROL SAMPLE  
METALS

Lab ID: LCS 680-396577/2-A

Lab Name: TestAmerica Savannah

Job No.: 680-115692-1

Sample Matrix: Solid

LCS Source: MS\_LCS1\_WK\_00023

Analyte	Solid (mg/Kg)						
	True	Found	C	%R	Limits	Q	Method
Arsenic	9.17	8.83		96	80 120		6010C
Lead	45.9	41.2		90	80 120		6010C

Calculations are performed before rounding to avoid round-off errors in calculated results.

FORM VIIA - IN

8-IN  
ICP-AES AND ICP-MS SERIAL DILUTIONS  
METALS

Lab ID: 680-115692-1

SDG No: 680-115692-01

Lab Name: TestAmerica Savannah

Job No: 680-115692-1

Matrix: Solid

Concentration Units: mg/Kg

Analyte	Initial Sample Result (I) C	Serial Dilution Result (S) C	% Difference	Q	Method
Arsenic	23	26.0	NC		6010C
Lead	40	46.3	17	V	6010C

Calculations are performed before rounding to avoid round-off errors in calculated results.

FORM VIII-IN

9-IN  
DETECTION LIMITS  
METALS

Lab Name: TestAmerica Savannah

Job Number: 680-115692-1

SDG Number: 680-115692-01

Matrix: Solid      Instrument ID: ICPE

Method: 6010C      MDL Date: 06/05/2015 09:41

Prep Method: 3050B

Analyte	Wavelength/ Mass	RL (mg/Kg)	MDL (mg/Kg)
Arsenic		2	0.8
Lead		1	0.34

9-IN  
CALIBRATION BLANK DETECTION LIMITS  
METALS

Lab Name: TestAmerica Savannah

Job Number: 680-115692-1

SDG Number: 680-115692-01

Matrix: Solid      Instrument ID: ICPE

Method: 6010C      XMDL Date: 06/12/2015 11:39

Analyte	Wavelength/ Mass	XRL (ug/L)	XMDL (ug/L)
Arsenic		20	6.2
Lead		10	3.9

10-IN  
ICP-AES INTERELEMENT CORRECTION FACTORS  
METALS

Lab Name: TestAmerica Savannah

Job Number: 680-115692-1

SDG No.: 680-115692-01

ICP-AES Instrument ID: ICPE Date: 05/14/2015

Analyte	Wave Length	Ag	Al	As	B	Ba	Be	Ca	Cd	Co	Cr	Cu	Fe	K	Mg
Aluminum	308.215									-0.001000			0.000016		
Antimony	206.834						0.000900				0.009000		0.000013		
Arsenic	188.980												-0.000010		
Barium	389.178												0.000072		0.000072
Beryllium	313.042														
Boron	249.678												-0.000141		
Cadmium	226.502												0.000079		
Calcium	370.602												-0.004490		
Chromium	267.716								-0.000200				0.000005		
Cobalt	228.615										0.000200		-0.000002		
Copper	324.754												0.000006		
Iron	271.441									0.063100	0.001160				
Lead	220.353		-0.000009							-0.000200	0.000220		0.000053		
Magnesium	279.078		-0.000142												
Manganese	257.610												0.000014		0.000035
Molybdenum	202.032												-0.000007		
Nickel	231.604									-0.000800			0.000018		

X-IN

10-IN  
ICP-AES INTERELEMENT CORRECTION FACTORS  
METALS

Lab Name: TestAmerica Savannah

Job Number: 680-115692-1

SDG No.: 680-115692-01

ICP-AES Instrument ID: ICPE Date: 05/14/2015

Analyte	Wave Length	Ag	Al	As	B	Ba	Be	Ca	Cd	Co	Cr	Cu	Fe	K	Mg
Potassium	766.49 1														
Selenium	196.02 6											0.000040			
Silver	328.06 8											-0.000002			
Sodium	330.23 7											-0.005002			
Strontium	216.59 6											0.000113			
Thallium	190.79 4							0.002530				-0.000085			
Tin	189.92 5														
Titanium	334.94 1												0.000006		
Vanadium	292.40 1									-0.001640					
Zinc	206.20 0									-0.002760		-0.000033			

X-IN

10-IN  
ICP-AES INTERELEMENT CORRECTION FACTORS  
METALS

Lab Name: TestAmerica Savannah

Job Number: 680-115692-1

SDG No.: 680-115692-01

ICP-AES Instrument ID: ICPE Date: 05/14/2015

Analyte	Wave Length	Mn	Mo	Na	Ni	Pb	Sb	Se	Sn	Sr	Ti	Tl	V	Zn	
Aluminum	308.215		0.006600										-0.015788		
Antimony	206.834		-0.011500						0.000200						
Arsenic	188.980		-0.000550												
Barium	389.178		0.000218										0.000095		
Beryllium	313.042		-0.000082										0.000030		
Boron	249.678						0.000900								
Cadmium	226.502										-0.000050				
Calcium	370.602	0.008900								0.155000		0.003040			
Chromium	267.716	0.000090								0.000040		-0.000200			
Cobalt	228.615		-0.002900						-0.000060		0.001850				
Copper	324.754		0.000550										-0.000200		
Iron	271.441		0.000760										0.006220		
Lead	220.353	0.000130	-0.000970								-0.000325				
Magnesium	279.078		-0.007600												
Manganese	257.610														
Molybdenum	202.032											-0.000160			
Nickel	231.604														

X-IN

10-IN  
ICP-AES INTERELEMENT CORRECTION FACTORS  
METALS

Lab Name: TestAmerica Savannah

Job Number: 680-115692-1

SDG No.: 680-115692-01

ICP-AES Instrument ID: ICPE Date: 05/14/2015

Analyte	Wave Length	Mn	Mo	Na	Ni	Pb	Sb	Se	Sn	Sr	Ti	Tl	V	Zn	
Potassium	766.49 1														
Selenium	196.02 6	0.000500													
Silver	328.06 8	0.000061							-0.000400			0.000028			
Sodium	330.23 7									-0.000995			-0.115620		
Strontium	216.59 6		-0.000500		-0.002275										
Thallium	190.79 4	-0.000466	-0.001233									0.001500			
Tin	189.92 5														
Titanium	334.94 1														
Vanadium	292.40 1		-0.007130							0.000275					
Zinc	206.20 0														

X-IN

11-IN  
LINEAR RANGES  
METALS

Lab Name: TestAmerica Savannah

Job No: 680-115692-1

SDG No.: 680-115692-01

Instrument ID: ICPE Date: 02/27/2012 11:40

Analyte	Integ. Time (Sec.)	Concentration (ug/L)	Method
Arsenic		18000	6010C
Lead		18000	6010C

12-IN  
PREPARATION LOG  
METALS

Lab Name: TestAmerica Savannah

Job No.: 680-115692-1

SDG No.: 680-115692-01

Prep Method: 3050B

Lab Sample ID	Preparation Date	Prep Batch	Initial Weight (g)	Initial Volume	Final Volume (mL)
MB 680-396577/1-A	08/17/2015 13:16	396577	1.12		100
LCS 680-396577/2-A	08/17/2015 13:16	396577	1.09		100
680-115692-1	08/17/2015 13:16	396577	1.04		100
680-115692-1 MS	08/17/2015 13:16	396577	1.05		100
680-115692-1 MSD	08/17/2015 13:16	396577	1.07		100
680-115692-18	08/17/2015 13:16	396577	1.10		100
680-115692-11	08/17/2015 13:16	396577	1.15		100
680-115692-17	08/17/2015 13:16	396577	1.09		100
680-115692-16	08/17/2015 13:16	396577	1.11		100
680-115692-20	08/17/2015 13:16	396577	1.10		100
680-115692-2	08/17/2015 13:16	396577	1.18		100
680-115692-19	08/17/2015 13:16	396577	1.13		100
680-115692-13	08/17/2015 13:16	396577	1.14		100
680-115692-12	08/17/2015 13:16	396577	1.17		100
680-115692-10	08/17/2015 13:16	396577	1.19		100
680-115692-9	08/17/2015 13:16	396577	1.08		100
680-115692-7	08/17/2015 13:16	396577	1.19		100
680-115692-8	08/17/2015 13:16	396577	1.19		100
680-115692-4	08/17/2015 13:16	396577	1.15		100
680-115692-3	08/17/2015 13:16	396577	1.06		100
680-115692-14	08/17/2015 13:16	396577	1.17		100
680-115692-5	08/17/2015 13:16	396577	1.12		100
680-115692-15	08/17/2015 13:16	396577	1.15		100
680-115692-6	08/17/2015 13:16	396577	1.14		100

13-IN  
ANALYSIS RUN LOG  
METALS

Lab Name: TestAmerica Savannah Job No.: 680-115692-1  
SDG No.: 680-115692-01  
Instrument ID: ICPE Method: 6010C  
Start Date: 08/19/2015 13:45 End Date: 08/20/2015 13:34

Lab Sample ID	D / F	T Y P	Time	Analytes												
				A s	P b											
ZZZZZ			13:45													
ZZZZZ			13:50													
ZZZZZ			13:54													
ICV 680-397264/4	1		13:59	X	X											
ICBIS 680-397264/5	1		14:03	X	X											
ZZZZZ			14:08													
CRI 680-397264/7	1		14:14	X	X											
ICSA 680-397264/8	1		14:20	X	X											
ICSAB 680-397264/9	1		14:25	X	X											
ZZZZZ			14:29													
ZZZZZ			14:34													
ZZZZZ			14:38													
CCV 680-397264/13			14:43													
CCB 680-397264/14			14:48													
CCV 680-397264/15			16:23													
CCB 680-397264/16			16:28													
ZZZZZ			16:32													
ZZZZZ			16:37													
ZZZZZ			16:41													
ZZZZZ			16:46													
ZZZZZ			16:50													
ZZZZZ			16:55													
ZZZZZ			17:00													
ZZZZZ			17:04													
ZZZZZ			17:09													
ZZZZZ			17:13													
CCV 680-397264/27			17:18													
CCB 680-397264/28			17:23													
ZZZZZ			17:27													
ZZZZZ			17:32													
ZZZZZ			17:36													
ZZZZZ			17:41													
ZZZZZ			17:45													
ZZZZZ			17:50													
ZZZZZ			17:55													
ZZZZZ			17:59													
ZZZZZ			18:04													
ZZZZZ			18:08													
CCV 680-397264/39			18:13													
CCB 680-397264/40			18:18													
ZZZZZ			18:22													
ZZZZZ			18:27													

13-IN  
ANALYSIS RUN LOG  
METALS

Lab Name: TestAmerica Savannah Job No.: 680-115692-1  
SDG No.: 680-115692-01  
Instrument ID: ICPE Method: 6010C  
Start Date: 08/19/2015 13:45 End Date: 08/20/2015 13:34

Lab Sample ID	D / F	T Y P	Time	Analytes												
				A s	P b											
ZZZZZZ			18:31													
ZZZZZZ			18:36													
ZZZZZZ			18:40													
ZZZZZZ			18:45													
ZZZZZZ			18:50													
ZZZZZZ			18:56													
ZZZZZZ			19:01													
ZZZZZZ			19:12													
CCV 680-397264/51			19:16													
CCB 680-397264/52			19:21													
ZZZZZZ			19:25													
ZZZZZZ			19:30													
ZZZZZZ			19:34													
ZZZZZZ			19:39													
ZZZZZZ			19:44													
ZZZZZZ			19:48													
ZZZZZZ			19:53													
ZZZZZZ			19:57													
ZZZZZZ			20:02													
ZZZZZZ			20:07													
CCV 680-397264/63			20:11													
CCB 680-397264/64			20:16													
ZZZZZZ			20:20													
ZZZZZZ			20:25													
ZZZZZZ			20:30													
ZZZZZZ			20:34													
ZZZZZZ			20:39													
ZZZZZZ			20:43													
ZZZZZZ			20:48													
ZZZZZZ			20:52													
ZZZZZZ			20:57													
ZZZZZZ			21:02													
CCV 680-397264/75			21:06													
CCB 680-397264/76			21:11													
ZZZZZZ			21:15													
ZZZZZZ			21:20													
ZZZZZZ			21:25													
ZZZZZZ			21:29													
ZZZZZZ			21:34													
ZZZZZZ			21:38													
ZZZZZZ			21:43													
ZZZZZZ			21:47													

13-IN  
ANALYSIS RUN LOG  
METALS

Lab Name: TestAmerica Savannah Job No.: 680-115692-1  
SDG No.: 680-115692-01  
Instrument ID: ICPE Method: 6010C  
Start Date: 08/19/2015 13:45 End Date: 08/20/2015 13:34

Lab Sample ID	D / F	T Y P	Time	Analytes												
				A s	P b											
ZZZZZ			21:52													
ZZZZZ			21:57													
CCV 680-397264/87			22:01													
CCB 680-397264/88			22:06													
ZZZZZ			22:10													
ZZZZZ			22:15													
ZZZZZ			22:20													
ZZZZZ			22:24													
ZZZZZ			22:29													
ZZZZZ			22:33													
ZZZZZ			22:38													
ZZZZZ			22:43													
ZZZZZ			22:47													
ZZZZZ			22:52													
CCV 680-397264/99			22:56													
CCB 680-397264/100			23:01													
ZZZZZ			23:06													
ZZZZZ			23:10													
ZZZZZ			23:15													
ZZZZZ			23:19													
ZZZZZ			23:24													
ZZZZZ			23:29													
ZZZZZ			23:33													
ZZZZZ			23:38													
ZZZZZ			23:42													
ZZZZZ			23:47													
CCV 680-397264/111			23:52													
CCB 680-397264/112			23:56													
ZZZZZ			00:01													
ZZZZZ			00:05													
ZZZZZ			00:10													
ZZZZZ			00:14													
ZZZZZ			00:19													
ZZZZZ			00:24													
ZZZZZ			00:28													
ZZZZZ			00:33													
ZZZZZ			00:37													
ZZZZZ			00:42													
CCV 680-397264/123			00:47													
CCB 680-397264/124			00:51													
ZZZZZ			00:56													
ZZZZZ			01:00													

13-IN  
ANALYSIS RUN LOG  
METALS

Lab Name: TestAmerica Savannah Job No.: 680-115692-1  
SDG No.: 680-115692-01  
Instrument ID: ICPE Method: 6010C  
Start Date: 08/19/2015 13:45 End Date: 08/20/2015 13:34

Lab Sample ID	D / F	T Y P	Time	Analytes												
				A s	P b											
ZZZZZZ			01:05													
ZZZZZZ			01:10													
ZZZZZZ			01:14													
ZZZZZZ			01:19													
ZZZZZZ			01:24													
ZZZZZZ			01:28													
ZZZZZZ			01:33													
ZZZZZZ			01:37													
CCV 680-397264/135	1		01:42	X	X											
CCB 680-397264/136	1		01:47	X	X											
ZZZZZZ			01:51													
ZZZZZZ			01:56													
MB 680-396577/1-A	1	T	02:00	X	X											
LCS 680-396577/2-A	1	T	02:05	X	X											
680-115692-1	1	T	02:10	X	X											
680-115692-1 SD	5	T	02:14	X	X											
680-115692-1 PDS	1	T	02:19	X	X											
680-115692-1 MS	1	T	02:23	X	X											
680-115692-1 MSD	1	T	02:28	X	X											
680-115692-18	1	T	02:33	X												
CCV 680-397264/147	1		02:37	X	X											
CCB 680-397264/148	1		02:42	X	X											
680-115692-11	1	T	02:46	X												
680-115692-17	1	T	02:51	X	X											
680-115692-16	1	T	02:56	X	X											
680-115692-20	1	T	03:00	X	X											
680-115692-2	1	T	03:05	X												
680-115692-19	1	T	03:09	X	X											
680-115692-13	1	T	03:14	X	X											
680-115692-12	1	T	03:19	X	X											
680-115692-10	1	T	03:23	X	X											
680-115692-9	1	T	03:28	X	X											
CCV 680-397264/159	1		03:33	X	X											
CCB 680-397264/160	1		03:37	X	X											
680-115692-7	1	T	03:42	X	X											
680-115692-8	1	T	03:46	X	X											
680-115692-4	1	T	03:51	X	X											
680-115692-3	1	T	03:56	X	X											
680-115692-14	1	T	04:00	X	X											
680-115692-5	1	T	04:05	X	X											
680-115692-15	1	T	04:10	X	X											
680-115692-6	1	T	04:14	X	X											

13-IN  
ANALYSIS RUN LOG  
METALS

Lab Name: TestAmerica Savannah Job No.: 680-115692-1  
SDG No.: 680-115692-01  
Instrument ID: ICPE Method: 6010C  
Start Date: 08/19/2015 13:45 End Date: 08/20/2015 13:34

Lab Sample ID	D / F	T Y P	Time	Analytes												
				A s	P b											
ZZZZZ			04:19													
ZZZZZ			04:23													
CCV 680-397264/171	1		04:28	X	X											
CCB 680-397264/172	1		04:33	X	X											
ZZZZZ			04:37													
ZZZZZ			04:42													
ZZZZZ			04:46													
ZZZZZ			04:51													
ZZZZZ			04:56													
ZZZZZ			05:00													
ZZZZZ			05:05													
ZZZZZ			05:10													
ZZZZZ			05:14													
ZZZZZ			05:19													
CCV 680-397264/183			05:23													
CCB 680-397264/184			05:28													
ZZZZZ			05:33													
ZZZZZ			05:37													
ZZZZZ			05:42													
ZZZZZ			05:47													
ZZZZZ			05:51													
ZZZZZ			05:56													
ZZZZZ			06:00													
ZZZZZ			06:05													
ZZZZZ			06:10													
ZZZZZ			06:14													
CCV 680-397264/195			06:19													
CCB 680-397264/196			06:24													
ZZZZZ			06:28													
ZZZZZ			06:33													
ZZZZZ			06:38													
ZZZZZ			06:42													
ZZZZZ			06:47													
ZZZZZ			06:51													
ZZZZZ			06:56													
ZZZZZ			07:01													
ZZZZZ			07:05													
ZZZZZ			07:10													
CCV 680-397264/207			07:15													
CCB 680-397264/208			07:19													
ZZZZZ			07:24													
ZZZZZ			07:28													

13-IN  
ANALYSIS RUN LOG  
METALS

Lab Name: TestAmerica Savannah Job No.: 680-115692-1  
SDG No.: 680-115692-01  
Instrument ID: ICPE Method: 6010C  
Start Date: 08/19/2015 13:45 End Date: 08/20/2015 13:34

Lab Sample ID	D / F	T Y P	Time	Analytes												
				A s	P b											
ZZZZZZ			07:33													
ZZZZZZ			07:38													
ZZZZZZ			07:42													
ZZZZZZ			07:47													
ZZZZZZ			07:52													
ZZZZZZ			07:56													
ZZZZZZ			08:01													
ZZZZZZ			08:06													
CCV 680-397264/219			08:10													
CCB 680-397264/220			08:15													
ZZZZZZ			08:20													
ZZZZZZ			08:24													
ZZZZZZ			08:29													
ZZZZZZ			08:33													
ZZZZZZ			08:38													
ZZZZZZ			08:43													
ZZZZZZ			08:47													
ZZZZZZ			08:52													
ZZZZZZ			08:57													
ZZZZZZ			09:01													
CCV 680-397264/231			09:32													
CCB 680-397264/232			09:36													
ZZZZZZ			09:41													
ZZZZZZ			09:46													
ZZZZZZ			09:50													
ZZZZZZ			09:55													
ZZZZZZ			10:00													
CCV 680-397264/238			10:04													
CCB 680-397264/239			10:09													
CCV 680-397264/240			10:42													
CCB 680-397264/241			10:45													
ZZZZZZ			10:49													
ZZZZZZ			10:53													
ZZZZZZ			10:57													
ZZZZZZ			11:00													
ZZZZZZ			11:04													
ZZZZZZ			11:08													
ZZZZZZ			11:12													
ZZZZZZ			11:15													
ZZZZZZ			11:19													
ZZZZZZ			11:23													
CCV 680-397264/252			11:27													

13-IN  
ANALYSIS RUN LOG  
METALS

Lab Name: TestAmerica Savannah Job No.: 680-115692-1  
SDG No.: 680-115692-01  
Instrument ID: ICPE Method: 6010C  
Start Date: 08/19/2015 13:45 End Date: 08/20/2015 13:34

Lab Sample ID	D / F	T Y P	Time	Analytes												
				A s	P b											
CCB 680-397264/253			11:30													
ZZZZZZ			11:34													
ZZZZZZ			11:38													
ZZZZZZ			11:42													
ZZZZZZ			11:45													
ZZZZZZ			11:49													
ZZZZZZ			11:53													
ZZZZZZ			11:57													
ZZZZZZ			12:00													
ZZZZZZ			12:04													
ZZZZZZ			12:08													
CCV 680-397264/264	1		12:17	X	X											
CCB 680-397264/265	1		12:20	X	X											
ZZZZZZ			12:24													
ZZZZZZ			12:28													
680-115692-18	10	T	12:32		X											
680-115692-11	10	T	12:35		X											
680-115692-2	10	T	12:39		X											
ZZZZZZ			12:43													
ZZZZZZ			12:47													
ZZZZZZ			12:50													
ZZZZZZ			12:54													
ZZZZZZ			12:58													
CCV 680-397264/276	1		13:02	X	X											
CCB 680-397264/277	1		13:05	X	X											
ZZZZZZ			13:09													
ZZZZZZ			13:13													
ZZZZZZ			13:17													
ZZZZZZ			13:20													
CRI 680-397264/282	1		13:24	X	X											
CCV 680-397264/283			13:30													
CCB 680-397264/284			13:34													

Prep Types  
T = Total/NA

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Blank (Blk)	8/19/2015, 1:45:34 PM			Rack S, Tube 1	
Label	Replicates	Concentration			
Ag 328.068	0.9234	-0.3713	-0.5520		
Al 308.215	1.0849	0.0278	-1.1126		
As 188.980	-2.4965	4.4422	-1.9457		
B 249.678	-0.1270	0.0946	0.0324		
Ba 389.178	-0.3185	-0.1578	0.4762		
Be 313.042	-0.0044	-0.0004	0.0049		
Ca 370.602	0.9590	1.385	-2.344		
Cd 226.502	0.0612	-0.0578	-0.0034		
Co 228.615	-0.1215	-0.1218	0.2434		
Cr 267.716	0.0169	0.0778	-0.0946		
Cu 324.754	-0.1312	1.0834	-0.9522		
Fe 271.441	-2.5639	3.8477	-1.2837		
K 766.491	-0.0679	0.2372	-0.1693		
Mg 279.078	-0.0858	-0.4156	0.5014		
Mn 257.610	-0.0083	-0.0406	0.0489		
Mo 202.032	-0.2932	0.1679	0.1253		
Na 330.237	25.0702	43.5645	-68.6346		
Ni 231.604	-0.6730	-0.1175	0.7906		
Pb 220.353	1.4324	0.4679	-1.9004		
Sb 206.834	0.7647	3.8681	-4.6328		
Se 196.026	-1.6584	1.6508	0.0076		
Sn 189.925	0.3200	-0.5049	0.1849		
Sr 216.596	-0.0078	-0.3553	0.3631		
Ti 334.941	-0.0127	0.0580	-0.0453		
Tl 190.794	0.6229	0.9820	-1.6048		
V 292.401	-0.2640	0.0461	0.2179		
Zn 206.200	-0.0503	0.4328	-0.3824		

Label	Sol'n Conc.	Units	SD(Int)	%RSD(Int)	Int. (c/s)
Ag 328.068	0.0000	ppb	76.370	663.6	11.5088
Al 308.215	0.0000	ppb	9.346	1.4	691.282
As 188.980	0.0000	ppb	4.564	36.3	-12.5785
B 249.678	0.0000	ppb	2.210	2.3	95.5914
Ba 389.178	0.0000	ppb	13.885	6.5	-212.733
Be 313.042	0.0000	ppb	12.450	1.7	-711.478
Ca 370.602	0.0000	ppb	11.269	32.3	-34.94
Cd 226.502	0.0000	ppb	5.260	5.8	91.0486
Co 228.615	0.0000	ppb	4.164	5.8	-71.3864
Cr 267.716	0.0000	ppb	7.073	16.3	43.4279
Cu 324.754	0.0000	ppb	69.621	31.4	221.686
Fe 271.441	0.0000	ppb	9.161	5.9	155.213
K 766.491	0.0000	ppb	13.077	2.5	528.949
Mg 279.078	0.0000	ppb	2.440	2.2	109.729
Mn 257.610	0.0000	ppb	15.370	41.6	36.9832
Mo 202.032	0.0000	ppb	2.308	8.4	27.5276
Na 330.237	0.0000	ppb	5.024	2.7	182.700
Ni 231.604	0.0000	ppb	3.963	41.8	-9.4860
Pb 220.353	0.0000	ppb	5.570	8.9	62.5123
Sb 206.834	0.0000	ppb	7.135	17.8	40.0626
Se 196.026	0.0000	ppb	1.287	13.0	-9.8787
Sn 189.925	0.0000	ppb	0.717	2.4	-30.2810
Sr 216.596	0.0000	ppb	8.418	14.3	58.8860
Ti 334.941	0.0000	ppb	17.453	346.1	5.0430

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Label	Sol'n Conc.	Units	SD(Int)	%RSD(Int)	Int. (c/s)
Tl 190.794	0.0000	ppb	2.598	5.1	-51.2197
V 292.401	0.0000	ppb	9.358	32.6	-28.6960
Zn 206.200	0.0000	ppb	1.230	74.3	1.6561

**HIGH STD (Std)**      **8/19/2015, 1:50:08 PM**      **Rack S, Tube 2**

Label	Replicates	Concentration
Ag 328.068	1002.98	981.793
Al 308.215	10060.8	9920.86
As 188.980	1001.25	997.271
B 249.678	1002.36	992.180
Ba 389.178	10057.9	9900.63
Be 313.042	1007.92	991.515
Ca 370.602	10106	9880
Cd 226.502	1007.95	989.251
Co 228.615	1005.23	991.764
Cr 267.716	10098.4	9903.85
Cu 324.754	9826.38	10010.6
Fe 271.441	10122.2	9881.12
K 766.491	20118.6	19804.3
Mg 279.078	10065.8	9912.95
Mn 257.610	10090.2	9891.37
Mo 202.032	1009.46	989.854
Na 330.237	15165.0	14767.8
Ni 231.604	5037.44	4950.95
Pb 220.353	1009.65	992.901
Sb 206.834	2012.40	1983.20
Se 196.026	10052.5	9906.80
Sn 189.925	9735.11	10021.3
Sr 216.596	5035.32	4955.68
Ti 334.941	1007.04	992.100
Tl 190.794	10049.2	9902.49
V 292.401	10061.8	9931.62
Zn 206.200	5040.39	4951.73
		5007.88

Label	Sol'n Conc.	Units	SD(Int)	%RSD(Int)	Int. (c/s)
Ag 328.068	1000.00	ppb	1605.190	1.7	94911.7
Al 308.215	10000.0	ppb	610.292	0.7	85733.5
As 188.980	1000.00	ppb	2.800	0.2	1170.65
B 249.678	1000.00	ppb	134.349	0.7	19432.2
Ba 389.178	10000.0	ppb	2856.436	0.9	330224
Be 313.042	1000.00	ppb	21962.924	0.8	2671841
Ca 370.602	10000	ppb	628.778	1.1	55187
Cd 226.502	1000.00	ppb	852.337	1.0	88346.5
Co 228.615	1000.00	ppb	142.643	0.7	19688.2
Cr 267.716	10000.0	ppb	7871.001	1.0	808972
Cu 324.754	10000.0	ppb	11459.859	1.7	680022
Fe 271.441	10000.0	ppb	325.533	1.2	27155.6
K 766.491	20000.0	ppb	10556.318	0.9	1236872
Mg 279.078	10000.0	ppb	412.962	0.8	52644.7
Mn 257.610	10000.0	ppb	34133.230	1.0	3390286
Mo 202.032	1000.00	ppb	88.994	1.0	9088.39
Na 330.237	15000.0	ppb	17.285	1.2	1435.53
Ni 231.604	5000.00	ppb	238.172	0.9	26812.0

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<b>Label</b>	<b>Sol'n Conc.</b>	<b>Units</b>	<b>SD(Int)</b>	<b>%RSD(Int)</b>	<b>Int. (c/s)</b>
Pb 220.353	1000.00	ppb	28.137	0.8	3310.43
Sb 206.834	2000.00	ppb	25.026	0.7	3357.31
Se 196.026	10000.0	ppb	62.955	0.8	7769.21
Sn 189.925	10000.0	ppb	413.240	2.6	16181.4
Sr 216.596	5000.00	ppb	950.785	0.8	117223
Ti 334.941	1000.00	ppb	2480.259	0.8	330470
Tl 190.794	10000.0	ppb	156.581	0.8	18490.0
V 292.401	10000.0	ppb	2503.664	0.7	383068
Zn 206.200	5000.00	ppb	134.606	0.9	15006.7

**Ag 328.068 Calibration (ppb)    8/19/2015, 1:50:08 PM    Correlation Coefficient: 1.000000**

<b>Label</b>	<b>Flags</b>	<b>Int. (c/s)</b>	<b>Std Conc.</b>	<b>Calc Conc.</b>	<b>Error</b>	<b>%Error</b>
Blank		11.5088	0.0000	0.0000	-	-
HIGH STD		94911.7	1000.00	1000.00	0.0000	0.0

Curve Type: Linear    Equation:  $y = 94.9 x + 11.5$ **Al 308.215 Calibration (ppb)    8/19/2015, 1:50:08 PM    Correlation Coefficient: 1.000000**

<b>Label</b>	<b>Flags</b>	<b>Int. (c/s)</b>	<b>Std Conc.</b>	<b>Calc Conc.</b>	<b>Error</b>	<b>%Error</b>
Blank		691.282	0.0000	0.0000	-	-
HIGH STD		85733.5	10000.0	10000.0	0.0000	0.0

Curve Type: Linear    Equation:  $y = 8.5 x + 691.3$ **As 188.980 Calibration (ppb)    8/19/2015, 1:50:08 PM    Correlation Coefficient: 1.000000**

<b>Label</b>	<b>Flags</b>	<b>Int. (c/s)</b>	<b>Std Conc.</b>	<b>Calc Conc.</b>	<b>Error</b>	<b>%Error</b>
Blank		-12.5785	0.0000	0.0000	-	-
HIGH STD		1170.65	1000.00	1000.000	-0.0002	0.0

Curve Type: Linear    Equation:  $y = 1.2 x + -12.6$ **B 249.678 Calibration (ppb)    8/19/2015, 1:50:08 PM    Correlation Coefficient: 1.000000**

<b>Label</b>	<b>Flags</b>	<b>Int. (c/s)</b>	<b>Std Conc.</b>	<b>Calc Conc.</b>	<b>Error</b>	<b>%Error</b>
Blank		95.5914	0.0000	0.0000	-	-
HIGH STD		19432.2	1000.00	1000.00	0.0001	0.0

Curve Type: Linear    Equation:  $y = 19.3 x + 95.6$ **Ba 389.178 Calibration (ppb)    8/19/2015, 1:50:08 PM    Correlation Coefficient: 1.000000**

<b>Label</b>	<b>Flags</b>	<b>Int. (c/s)</b>	<b>Std Conc.</b>	<b>Calc Conc.</b>	<b>Error</b>	<b>%Error</b>
Blank		-212.733	0.0000	0.0000	-	-
HIGH STD		330224	10000.0	10000.0	0.0000	0.0

Curve Type: Linear    Equation:  $y = 33.0 x + -212.7$

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<b>Be 313.042 Calibration (ppb)</b>	<b>8/19/2015, 1:50:08 PM</b>		<b>Correlation Coefficient: 1.000000</b>		
<b>Label</b>	<b>Flags</b>	<b>Int. (c/s)</b>	<b>Std Conc.</b>	<b>Calc Conc.</b>	<b>Error</b>
Blank		-711.478	0.0000	0.0000	-
HIGH STD		2671841	1000.00	1000.000	-0.0001

Curve Type: Linear      Equation:  $y = 2672.6 x + -711.5$ 

<b>Ca 370.602 Calibration (ppb)</b>	<b>8/19/2015, 1:50:08 PM</b>		<b>Correlation Coefficient: 1.000000</b>		
<b>Label</b>	<b>Flags</b>	<b>Int. (c/s)</b>	<b>Std Conc.</b>	<b>Calc Conc.</b>	<b>Error</b>
Blank		-34.94	0.0000	0.0000	-
HIGH STD		55187	10000	10000	0.0000

Curve Type: Linear      Equation:  $y = 5.5 x + -34.9$ 

<b>Cd 226.502 Calibration (ppb)</b>	<b>8/19/2015, 1:50:08 PM</b>		<b>Correlation Coefficient: 1.000000</b>		
<b>Label</b>	<b>Flags</b>	<b>Int. (c/s)</b>	<b>Std Conc.</b>	<b>Calc Conc.</b>	<b>Error</b>
Blank		91.0486	0.0000	0.0000	-
HIGH STD		88346.5	1000.00	1000.00	0.0000

Curve Type: Linear      Equation:  $y = 88.3 x + 91.0$ 

<b>Co 228.615 Calibration (ppb)</b>	<b>8/19/2015, 1:50:08 PM</b>		<b>Correlation Coefficient: 1.000000</b>		
<b>Label</b>	<b>Flags</b>	<b>Int. (c/s)</b>	<b>Std Conc.</b>	<b>Calc Conc.</b>	<b>Error</b>
Blank		-71.3864	0.0000	0.0000	-
HIGH STD		19688.2	1000.00	1000.00	0.0000

Curve Type: Linear      Equation:  $y = 19.8 x + -71.4$ 

<b>Cr 267.716 Calibration (ppb)</b>	<b>8/19/2015, 1:50:08 PM</b>		<b>Correlation Coefficient: 1.000000</b>		
<b>Label</b>	<b>Flags</b>	<b>Int. (c/s)</b>	<b>Std Conc.</b>	<b>Calc Conc.</b>	<b>Error</b>
Blank		43.4279	0.0000	0.0000	-
HIGH STD		808972	10000.0	10000.0	0.0000

Curve Type: Linear      Equation:  $y = 80.9 x + 43.4$ 

<b>Cu 324.754 Calibration (ppb)</b>	<b>8/19/2015, 1:50:08 PM</b>		<b>Correlation Coefficient: 1.000000</b>		
<b>Label</b>	<b>Flags</b>	<b>Int. (c/s)</b>	<b>Std Conc.</b>	<b>Calc Conc.</b>	<b>Error</b>
Blank		221.686	0.0000	0.0000	-
HIGH STD		680022	10000.0	10000.0	0.0010

Curve Type: Linear      Equation:  $y = 68.0 x + 221.7$ 

<b>Fe 271.441 Calibration (ppb)</b>	<b>8/19/2015, 1:50:08 PM</b>		<b>Correlation Coefficient: 1.000000</b>		
<b>Label</b>	<b>Flags</b>	<b>Int. (c/s)</b>	<b>Std Conc.</b>	<b>Calc Conc.</b>	<b>Error</b>
Blank		155.213	0.0000	0.0000	-
HIGH STD		27155.6	10000.0	10000.0	0.0000

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Curve Type: Linear      Equation:  $y = 2.7 x + 155.2$ 

<b>K 766.491 Calibration (ppb)</b>	<b>8/19/2015, 1:50:08 PM</b>		<b>Correlation Coefficient: 1.000000</b>			
Label	Flags	Int. (c/s)	Std Conc.	Calc Conc.	Error	%Error
Blank		528.949	0.0000	0.0000	-	-
HIGH STD		1236872	20000.0	20000.0	0.0000	0.0

Curve Type: Linear      Equation:  $y = 61.8 x + 528.9$ 

<b>Mg 279.078 Calibration (ppb)</b>	<b>8/19/2015, 1:50:08 PM</b>		<b>Correlation Coefficient: 1.000000</b>			
Label	Flags	Int. (c/s)	Std Conc.	Calc Conc.	Error	%Error
Blank		109.729	0.0000	0.0000	-	-
HIGH STD		52644.7	10000.0	10000.0	0.0010	0.0

Curve Type: Linear      Equation:  $y = 5.3 x + 109.7$ 

<b>Mn 257.610 Calibration (ppb)</b>	<b>8/19/2015, 1:50:08 PM</b>		<b>Correlation Coefficient: 1.000000</b>			
Label	Flags	Int. (c/s)	Std Conc.	Calc Conc.	Error	%Error
Blank		36.9832	0.0000	0.0000	-	-
HIGH STD		3390286	10000.0	10000.0	0.0000	0.0

Curve Type: Linear      Equation:  $y = 339.0 x + 37.0$ 

<b>Mo 202.032 Calibration (ppb)</b>	<b>8/19/2015, 1:50:08 PM</b>		<b>Correlation Coefficient: 1.000000</b>			
Label	Flags	Int. (c/s)	Std Conc.	Calc Conc.	Error	%Error
Blank		27.5276	0.0000	0.0000	-	-
HIGH STD		9088.39	1000.00	1000.00	0.0000	0.0

Curve Type: Linear      Equation:  $y = 9.1 x + 27.5$ 

<b>Na 330.237 Calibration (ppb)</b>	<b>8/19/2015, 1:50:08 PM</b>		<b>Correlation Coefficient: 1.000000</b>			
Label	Flags	Int. (c/s)	Std Conc.	Calc Conc.	Error	%Error
Blank		182.700	0.0000	0.0000	-	-
HIGH STD		1435.53	15000.0	15000.0	-0.0010	0.0

Curve Type: Linear      Equation:  $y = 0.1 x + 182.7$ 

<b>Ni 231.604 Calibration (ppb)</b>	<b>8/19/2015, 1:50:08 PM</b>		<b>Correlation Coefficient: 1.000000</b>			
Label	Flags	Int. (c/s)	Std Conc.	Calc Conc.	Error	%Error
Blank		-9.4860	0.0000	0.0000	-	-
HIGH STD		26812.0	5000.00	5000.00	0.0000	0.0

Curve Type: Linear      Equation:  $y = 5.4 x + -9.5$

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<b>Pb 220.353 Calibration (ppb)</b>		<b>8/19/2015, 1:50:08 PM</b>		<b>Correlation Coefficient: 1.000000</b>		
<b>Label</b>	<b>Flags</b>	<b>Int. (c/s)</b>	<b>Std Conc.</b>	<b>Calc Conc.</b>	<b>Error</b>	<b>%Error</b>
Blank		62.5123	0.0000	0.0000	-	-
HIGH STD		3310.43	1000.00	1000.00	0.0001	0.0

Curve Type: Linear      Equation:  $y = 3.2 x + 62.5$ 

<b>Sb 206.834 Calibration (ppb)</b>		<b>8/19/2015, 1:50:08 PM</b>		<b>Correlation Coefficient: 1.000000</b>		
<b>Label</b>	<b>Flags</b>	<b>Int. (c/s)</b>	<b>Std Conc.</b>	<b>Calc Conc.</b>	<b>Error</b>	<b>%Error</b>
Blank		40.0626	0.0000	0.0000	-	-
HIGH STD		3357.31	2000.00	2000.00	0.0001	0.0

Curve Type: Linear      Equation:  $y = 1.7 x + 40.1$ 

<b>Se 196.026 Calibration (ppb)</b>		<b>8/19/2015, 1:50:08 PM</b>		<b>Correlation Coefficient: 1.000000</b>		
<b>Label</b>	<b>Flags</b>	<b>Int. (c/s)</b>	<b>Std Conc.</b>	<b>Calc Conc.</b>	<b>Error</b>	<b>%Error</b>
Blank		-9.8787	0.0000	0.0000	-	-
HIGH STD		7769.21	10000.0	10000.0	0.0010	0.0

Curve Type: Linear      Equation:  $y = 0.8 x + -9.9$ 

<b>Sn 189.925 Calibration (ppb)</b>		<b>8/19/2015, 1:50:08 PM</b>		<b>Correlation Coefficient: 1.000000</b>		
<b>Label</b>	<b>Flags</b>	<b>Int. (c/s)</b>	<b>Std Conc.</b>	<b>Calc Conc.</b>	<b>Error</b>	<b>%Error</b>
Blank		-30.2810	0.0000	0.0000	-	-
HIGH STD		16181.4	10000.0	10000.0	0.0000	0.0

Curve Type: Linear      Equation:  $y = 1.6 x + -30.3$ 

<b>Sr 216.596 Calibration (ppb)</b>		<b>8/19/2015, 1:50:08 PM</b>		<b>Correlation Coefficient: 1.000000</b>		
<b>Label</b>	<b>Flags</b>	<b>Int. (c/s)</b>	<b>Std Conc.</b>	<b>Calc Conc.</b>	<b>Error</b>	<b>%Error</b>
Blank		58.8860	0.0000	0.0000	-	-
HIGH STD		117223	5000.00	5000.00	0.0000	0.0

Curve Type: Linear      Equation:  $y = 23.4 x + 58.9$ 

<b>Ti 334.941 Calibration (ppb)</b>		<b>8/19/2015, 1:50:08 PM</b>		<b>Correlation Coefficient: 1.000000</b>		
<b>Label</b>	<b>Flags</b>	<b>Int. (c/s)</b>	<b>Std Conc.</b>	<b>Calc Conc.</b>	<b>Error</b>	<b>%Error</b>
Blank		5.0430	0.0000	0.0000	-	-
HIGH STD		330470	1000.00	1000.00	0.0000	0.0

Curve Type: Linear      Equation:  $y = 330.5 x + 5.0$ 

<b>Tl 190.794 Calibration (ppb)</b>		<b>8/19/2015, 1:50:08 PM</b>		<b>Correlation Coefficient: 1.000000</b>		
<b>Label</b>	<b>Flags</b>	<b>Int. (c/s)</b>	<b>Std Conc.</b>	<b>Calc Conc.</b>	<b>Error</b>	<b>%Error</b>
Blank		-51.2197	0.0000	0.0000	-	-
HIGH STD		18490.0	10000.0	10000.0	0.0000	0.0

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Curve Type: Linear      Equation:  $y = 1.9 x + -51.2$ 

<b>V 292.401 Calibration (ppb)</b>		<b>8/19/2015, 1:50:08 PM</b>		<b>Correlation Coefficient: 1.000000</b>		
<b>Label</b>	<b>Flags</b>	<b>Int. (c/s)</b>	<b>Std Conc.</b>	<b>Calc Conc.</b>	<b>Error</b>	<b>%Error</b>
Blank		-28.6960	0.0000	0.0000	-	-
HIGH STD		383068	10000.0	10000.0	0.0000	0.0

Curve Type: Linear      Equation:  $y = 38.3 x + -28.7$ 

<b>Zn 206.200 Calibration (ppb)</b>		<b>8/19/2015, 1:50:08 PM</b>		<b>Correlation Coefficient: 1.000000</b>		
<b>Label</b>	<b>Flags</b>	<b>Int. (c/s)</b>	<b>Std Conc.</b>	<b>Calc Conc.</b>	<b>Error</b>	<b>%Error</b>
Blank		1.6561	0.0000	0.0000	-	-
HIGH STD		15006.7	5000.00	5000.00	0.0000	0.0

Curve Type: Linear      Equation:  $y = 3.0 x + 1.7$ 

<b>Lab Control Sample (LCS)</b>	<b>8/19/2015, 1:54:42 PM</b>	<b>Rack S, Tube 2</b>
<b>Weight: 1</b>	<b>Volume: 1</b>	<b>Dilution: 1</b>

<b>Label</b>	<b>Replicates</b>	<b>Concentration</b>
Ag 328.068	1047.65x	983.645
Al 308.215	10194.0	9723.22
As 188.980	1016.73	958.778
B 249.678	1009.64	956.714
Ba 389.178	10114.0x	9641.33
Be 313.042	1011.48x	958.681
Ca 370.602	10292	9682
Cd 226.502	1024.97x	961.463
Co 228.615	1012.38	959.315
Cr 267.716	10135.4x	9585.17
Cu 324.754	10068.9	9988.89
Fe 271.441	10168.2	9642.46
K 766.491	20245.3	19124.3
Mg 279.078	10048.1	9528.10
Mn 257.610	10112.1	9606.01
Mo 202.032	1009.58x	958.438
Na 330.237	14839.7	14119.8
Ni 231.604	5058.17	4792.33
Pb 220.353	1012.54	955.877
Sb 206.834	2097.56	1981.52
Se 196.026	10074.7x	9521.24
Sn 189.925	9479.11	9759.57
Sr 216.596	5047.68x	4797.65
Ti 334.941	1013.99	963.023
Tl 190.794	10118.8x	9623.48
V 292.401	10105.0x	9618.05
Zn 206.200	5029.05	4770.17

<b>Label</b>	<b>Sol'n Conc.</b>	<b>Units</b>	<b>SD</b>	<b>%RSD</b>	<b>Int. (c/s)</b>	<b>QC Value</b>
Ag 328.068	1022.26xb	ppb	33.9888	3.3	96917.7	102.22569
Al 308.215	9996.36b	ppb	244.298	2.4	87081.6	99.96358

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Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)	QC Value
As 188.980	994.108b	ppb	30.9954	3.1	1162.92	99.41080
B 249.678	990.039b	ppb	29.0105	2.9	19247.2	99.00395
Ba 389.178	9925.81xb	ppb	250.611	2.5	327842	99.25806
Be 313.042	989.228xb	ppb	27.3589	2.8	2643621	98.92284
Ca 370.602	10020b	ppb	310.1	3.1	56554	100.19946
Cd 226.502	994.799xb	ppb	31.8730	3.2	87943.4	99.47987
Co 228.615	990.658b	ppb	27.8103	2.8	19510.5	99.06583
Cr 267.716	9891.45xb	ppb	280.358	2.8	800095	98.91453
Cu 324.754	10104.9b	ppb	137.560	1.4	687059	101.04892
Fe 271.441	9951.59b	ppb	274.811	2.8	27392.8	99.51594
K 766.491	19765.8b	ppb	577.750	2.9	1222392	98.82882
Mg 279.078	9835.39b	ppb	272.596	2.8	51377.4	98.35387
Mn 257.610	9890.81b	ppb	258.966	2.6	3353434	98.90813
Mo 202.032	987.680xb	ppb	26.3509	2.7	8961.76	98.76799
Na 330.237	14500.0b	ppb	361.641	2.5	1383.12	96.66693
Ni 231.604	4946.52b	ppb	137.933	2.8	26521.9	98.93047
Pb 220.353	989.062b	ppb	29.5516	3.0	3282.76	98.90624
Sb 206.834	2050.55b	ppb	61.0726	3.0	3589.08	102.52732
Se 196.026	9844.64xb	ppb	288.293	2.9	7652.12	98.44643
Sn 189.925	9674.15b	ppb	169.341	1.8	15653.1	96.74146
Sr 216.596	4937.93xb	ppb	127.779	2.6	115520	98.75852
Ti 334.941	992.380b	ppb	26.3508	2.7	327972	99.23798
Tl 190.794	9912.00xb	ppb	257.577	2.6	18363.8	99.11998
V 292.401	9897.85xb	ppb	251.486	2.5	378274	98.97849
Zn 206.200	4919.33b	ppb	133.875	2.7	14682.7	98.38668

Initial Calib Verif (ICV)

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Rack S, Tube 3

Weight: 1

Volume: 1

Dilution: 1

Label	Replicates	Concentration	
Ag 328.068	1002.53x	1008.08x	1001.73
Al 308.215	1004.66	993.179	1007.26
As 188.980	979.003	964.901	999.413
B 249.678	1000.05	989.112	1003.85
Ba 389.178	998.863	989.029	1004.85
Be 313.042	988.168	976.413	992.516
Ca 370.602	963.2	950.9	974.2
Cd 226.502	1004.76x	988.862	995.541
Co 228.615	1011.94	1049.20	1046.42
Cr 267.716	1015.12	1004.85	1019.57
Cu 324.754	1008.46	1026.81	1008.38
Fe 271.441	1006.55	979.741	1002.69
K 766.491	9915.96	9777.17	9922.96
Mg 279.078	978.767	961.277	979.382
Mn 257.610	1019.48	1009.92	1024.52
Mo 202.032	1000.84x	988.363	1005.04x
Na 330.237	9978.78	9891.98	9989.93
Ni 231.604	1016.33	997.823	1015.73
Pb 220.353	994.700	986.094	1002.89
Sb 206.834	1042.86	1039.94	1044.60
Se 196.026	968.031	957.549	971.167
Sn 189.925	5159.87	5306.14	5105.85
Sr 216.596	4997.92	4937.55	5021.44x
Ti 334.941	966.270	958.075	972.103

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Label	Replicates Concentration			
Tl 190.794	992.233	984.580	999.213	
V 292.401	1015.73	1005.95	1020.39	
Zn 206.200	1005.88	994.168	1013.85	

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)	QC Value
Ag 328.068	1004.12xb	ppb	3.4555	0.3	95120.9	100.41161
Al 308.215	1001.70b	ppb	7.4935	0.7	9392.93	100.17012
As 188.980	981.106b	ppb	17.3517	1.8	1147.63	98.11055
B 249.678	997.671b	ppb	7.6510	0.8	19400.7	99.76708
Ba 389.178	997.580b	ppb	7.9871	0.8	32764.6	99.75801
Be 313.042	985.699b	ppb	8.3304	0.8	2633478	98.56986
Ca 370.602	962.8b	ppb	11.67	1.2	6146	96.27896
Cd 226.502	996.388xb	ppb	7.9824	0.8	88029.8	99.63876
Co 228.615	1035.85b	ppb	20.7579	2.0	20372.4	103.58546
Cr 267.716	1013.18b	ppb	7.5520	0.7	81981.2	101.31795
Cu 324.754	1014.55b	ppb	10.6135	1.0	69215.0	101.45515
Fe 271.441	996.330b	ppb	14.4958	1.5	3043.55	99.63301
K 766.491	9872.03b	ppb	82.2271	0.8	610790	98.72031
Mg 279.078	973.142b	ppb	10.2798	1.1	5180.73	97.31423
Mn 257.610	1017.97b	ppb	7.4184	0.7	345172	101.79720
Mo 202.032	998.081xb	ppb	8.6750	0.9	9069.47	99.80812
Na 330.237	9953.56b	ppb	53.6243	0.5	1012.20	99.53564
Ni 231.604	1009.96b	ppb	10.5171	1.0	5403.92	100.99615
Pb 220.353	994.561b	ppb	8.3987	0.8	3289.24	99.45612
Sb 206.834	1042.47b	ppb	2.3562	0.2	1769.83	104.24702
Se 196.026	965.582b	ppb	7.1313	0.7	741.644	96.55822
Sn 189.925	5190.62b	ppb	103.627	2.0	8384.58	103.81242
Sr 216.596	4985.64xb	ppb	43.2687	0.9	116824	99.71274
Ti 334.941	965.483b	ppb	7.0468	0.7	319065	96.54827
Tl 190.794	992.009b	ppb	7.3190	0.7	1794.17	99.20088
V 292.401	1014.02b	ppb	7.3691	0.7	38491.7	101.40226
Zn 206.200	1004.63b	ppb	9.9019	1.0	3008.19	100.46335

Initial Calib Blank (ICB)      8/19/2015, 2:03:51 PM      Rack S, Tube 1  
 Weight: 1      Volume: 1      Dilution: 1

Label	Replicates Concentration		
Ag 328.068	-0.0552u	-0.9137u	0.0661
Al 308.215	-15.4770u	-15.1754u	-15.9636u
As 188.980	6.4188	7.3560	4.3696
B 249.678	10.9059	9.6832	8.8921
Ba 389.178	1.6052	1.1319	1.1185
Be 313.042	0.0191	0.0173	0.0190
Ca 370.602	4.740	7.542	0.3988
Cd 226.502	0.4845	0.3976	0.5692
Co 228.615	0.2616	-0.4870u	0.3470
Cr 267.716	-0.0849u	-0.4226u	-0.2220u
Cu 324.754	1.0988	1.6389	1.2378
Fe 271.441	-5.1405u	-6.7798u	-8.3554u
K 766.491	-1.1129u	-0.5140u	0.2075
Mg 279.078	-4.2483u	-2.5608u	-1.3413u
Mn 257.610	0.0478	0.0360	0.0568
Mo 202.032	0.5767	0.6717	1.1047
Na 330.237	45.9178	-48.7450u	-73.8240u

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Label	Replicates Concentration		
Ni 231.604	2.4309	2.4737	1.3047
Pb 220.353	1.0239	-0.0193u	-3.0107u
Sb 206.834	-3.9626u	-4.9837u	-9.1824u
Se 196.026	4.0308	-4.4632u	3.1350
Sn 189.925	1.9178	-0.4408u	0.0988
Sr 216.596	0.1532	0.1520	0.2147
Ti 334.941	-0.0153u	0.0501	0.0320
Tl 190.794	1.4670	-1.5405u	0.9078
V 292.401	0.0488	-0.1131u	0.0382
Zn 206.200	0.5367	-0.2837u	0.6751

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)	QC Value
Ag 328.068	-0.3010	ppb	0.5341	177.5	-17.0552	-0.30096
Al 308.215	-15.5387	ppb	0.3977	2.6	559.176	-15.53867
As 188.980	6.0481	ppb	1.5273	25.3	-5.4226	6.04814
B 249.678	9.8270	ppb	1.0146	10.3	285.526	9.82703
Ba 389.178	1.2852	ppb	0.2772	21.6	-170.264	1.28521
Be 313.042	0.0185	ppb	0.0011	5.7	-662.261	0.01847
Ca 370.602	4.227	ppb	3.599	85.1	-11.53	4.22672
Cd 226.502	0.4838	ppb	0.0858	17.7	133.737	0.48379
Co 228.615	0.0405	ppb	0.4588	1132.1	-70.6271	0.04053
Cr 267.716	-0.2432	ppb	0.1699	69.8	23.7530	-0.24317
Cu 324.754	1.3252	ppb	0.2804	21.2	311.799	1.32518
Fe 271.441	-6.7586	ppb	1.6076	23.8	136.994	-6.75857
K 766.491	-0.4731	ppb	0.6611	139.7	499.702	-0.47312
Mg 279.078	-2.7168	ppb	1.4598	53.7	95.4678	-2.71679
Mn 257.610	0.0469	ppb	0.0104	22.3	52.8464	0.04686
Mo 202.032	0.7844	ppb	0.2815	35.9	34.6348	0.78438
Na 330.237	-25.5505	ppb	63.1508	247.2	180.566	-25.55046
Ni 231.604	2.0698	ppb	0.6629	32.0	1.6159	2.06975
Pb 220.353	-0.6687	ppb	2.0942	313.2	60.3379	-0.66872
Sb 206.834	-6.0429	ppb	2.7664	45.8	30.0215	-6.04289
Se 196.026	0.9009	ppb	4.6670	518.1	-9.1779	0.90086
Sn 189.925	0.5253	ppb	1.2358	235.3	-29.4294	0.52529
Sr 216.596	0.1733	ppb	0.0358	20.7	62.8025	0.17330
Ti 334.941	0.0223	ppb	0.0338	151.8	12.3972	0.02226
Tl 190.794	0.2781	ppb	1.5996	575.2	-50.7047	0.27809
V 292.401	-0.0087	ppb	0.0906	1042.6	-29.2094	-0.00869
Zn 206.200	0.3094	ppb	0.5182	167.5	2.5870	0.30937

CRI (CRI) 8/19/2015, 2:08:25 PM Rack S, Tube 4  
Weight: 1 Volume: 1 Dilution: 1

Label	Replicates Concentration		
Ag 328.068	10.1532	11.2034	9.6978
Al 308.215	187.504	188.754	194.345
As 188.980	21.1033	20.1908	19.6053
B 249.678	100.264	100.879	103.155
Ba 389.178	11.3984	10.3611	10.2654
Be 313.042	3.9282	3.9314	3.9855
Ca 370.602	541.5	546.0	556.7
Cd 226.502	5.4765	5.5882	5.4823
Co 228.615	10.2167	10.4265	10.2470
Cr 267.716	9.8767	10.1584	10.3350

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Label	Replicates	Concentration	
Cu 324.754	20.8857	22.0937	21.9005
Fe 271.441	52.7145	47.3965	47.1182
K 766.491	1044.92	1051.29	1063.76
Mg 279.078	501.274	501.176	509.278
Mn 257.610	10.4079	10.4368	10.5856
Mo 202.032	10.3090	10.2294	9.7798
Na 330.237	1075.06	970.187	1007.05
Ni 231.604	51.2805	52.9493	54.3484
Pb 220.353	5.9099	10.2568	8.3519
Sb 206.834	17.4420	18.1101	20.3899
Se 196.026	15.4669	23.9756	19.5166
Sn 189.925	53.3365	50.1913	51.3105
Sr 216.596	11.8767	11.7823	12.5510
Ti 334.941	11.5986	11.6911	11.8256
Tl 190.794	28.5271	26.7473	23.7319
V 292.401	12.3906	11.7834	12.1053
Zn 206.200	21.9535	21.1683	21.4437

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)	QC Value
Ag 328.068	10.3514	ppb	0.7722	7.5	993.485	103.51450
Al 308.215	190.201	ppb	3.6430	1.9	2310.89	95.10052
As 188.980	20.2998	ppb	0.7550	3.7	11.4337	101.49892
B 249.678	101.433	ppb	1.5226	1.5	2057.10	101.43291
Ba 389.178	10.6749	ppb	0.6283	5.9	141.379	106.74950
Be 313.042	3.9484	ppb	0.0322	0.8	9839.58	98.70976
Ca 370.602	548.1	ppb	7.788	1.4	3001	109.61239
Cd 226.502	5.5157	ppb	0.0629	1.1	578.116	110.31369
Co 228.615	10.2967	ppb	0.1134	1.1	131.903	102.96733
Cr 267.716	10.1234	ppb	0.2311	2.3	862.221	101.23356
Cu 324.754	21.6266	ppb	0.6489	3.0	1692.10	108.13321
Fe 271.441	49.0764	ppb	3.1538	6.4	289.741	98.15284
K 766.491	1053.32	ppb	9.5841	0.9	65642.5	105.33246
Mg 279.078	503.909	ppb	4.6499	0.9	2756.46	100.78181
Mn 257.610	10.4768	ppb	0.0953	0.9	3595.22	104.76791
Mo 202.032	10.1061	ppb	0.2853	2.8	119.076	101.06065
Na 330.237	1017.43	ppb	53.2008	5.2	267.627	101.74306
Ni 231.604	52.8594	ppb	1.5359	2.9	274.029	132.14853R
Pb 220.353	8.1729	ppb	2.1790	26.7	89.0221	81.72871
Sb 206.834	18.6474	ppb	1.5456	8.3	70.9882	93.23676
Se 196.026	19.6530	ppb	4.2560	21.7	5.4132	98.26509
Sn 189.925	51.6128	ppb	1.5942	3.1	53.3926	103.22559
Sr 216.596	12.0700	ppb	0.4192	3.5	338.894	120.69987R
Ti 334.941	11.7051	ppb	0.1141	1.0	3874.12	117.05109
Tl 190.794	26.3354	ppb	2.4240	9.2	-2.3307	105.34167
V 292.401	12.0931	ppb	0.3038	2.5	431.336	120.93092R
Zn 206.200	21.5218	ppb	0.3984	1.9	66.1596	107.60899

CRI (CRI) 8/19/2015, 2:14:39 PM Rack S, Tube 4  
 Weight: 1 Volume: 1 Dilution: 1

Label	Replicates	Concentration	
Ag 328.068	10.4739	9.9386	10.8806
Al 308.215	173.694	179.689	176.029
As 188.980	18.2743	21.1894	16.3886

Label	Replicates	Concentration					
B 249.678	96.6437	98.9191	97.8922				
Ba 389.178	9.9289	10.5759	10.8543				
Be 313.042	3.8280	3.8768	3.8104				
Ca 370.602	528.7	538.9	534.5				
Cd 226.502	5.2715	5.5458	5.4721				
Co 228.615	10.4184	9.2938	10.8668				
Cr 267.716	9.6701	9.6598	9.5562				
Cu 324.754	21.3627	20.0029	20.3348				
Fe 271.441	36.7548	46.8759	44.9092				
K 766.491	1022.01	1038.36	1024.46				
Mg 279.078	483.886	493.059	487.630				
Mn 257.610	10.1581	10.3077	10.1403				
Mo 202.032	10.1445	10.4403	10.2191				
Na 330.237	881.670	1101.90	1026.13				
Ni 231.604	44.4839	46.9042	45.7559				
Pb 220.353	10.7743	11.2623	7.8466				
Sb 206.834	15.4458	17.5992	15.8250				
Se 196.026	18.3867	15.7503	19.3204				
Sn 189.925	51.1049	51.6182	47.7945				
Sr 216.596	11.9549	12.0240	11.3284				
Ti 334.941	11.1843	11.3640	11.1787				
Tl 190.794	27.7875	26.6252	25.3659				
V 292.401	11.5255	11.6930	11.9986				
Zn 206.200	20.7727	19.6509	20.8811				

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)	QC Value	
Ag 328.068	10.4310	ppb	0.4725	4.5	1001.05	104.31032	
Al 308.215	176.471	ppb	3.0216	1.7	2194.09	88.23532	
As 188.980	18.6174	ppb	2.4187	13.0	9.4431	93.08707	
B 249.678	97.8183	ppb	1.1395	1.2	1987.14	97.81831	
Ba 389.178	10.4530	ppb	0.4748	4.5	134.011	104.53026	
Be 313.042	3.8384	ppb	0.0344	0.9	9545.58	95.96004	
Ca 370.602	534.0	ppb	5.104	1.0	2923	106.80754	
Cd 226.502	5.4298	ppb	0.1420	2.6	570.514	108.59563	
Co 228.615	10.1930	ppb	0.8104	8.0	129.834	101.93028	
Cr 267.716	9.6287	ppb	0.0630	0.7	822.208	96.28693	
Cu 324.754	20.5668	ppb	0.7090	3.4	1620.06	102.83394	
Fe 271.441	42.8466	ppb	5.3666	12.5	272.896	85.69328	
K 766.491	1028.28	ppb	8.8168	0.9	64094.0	102.82758	
Mg 279.078	488.192	ppb	4.6123	0.9	2673.91	97.63835	
Mn 257.610	10.2020	ppb	0.0919	0.9	3501.88	102.02014	
Mo 202.032	10.2679	ppb	0.1538	1.5	120.544	102.67944	
Na 330.237	1003.23	ppb	111.884	11.2	266.443	100.32306	
Ni 231.604	45.7147	ppb	1.2107	2.6	235.702	114.28669	
Pb 220.353	9.9611	ppb	1.8474	18.5	94.8294	99.61067	
Sb 206.834	16.2900	ppb	1.1495	7.1	67.0696	81.45000	
Se 196.026	17.8191	ppb	1.8515	10.4	3.9866	89.09569	
Sn 189.925	50.1725	ppb	2.0754	4.1	51.0577	100.34509	
Sr 216.596	11.7691	ppb	0.3832	3.3	332.200	117.69088	
Ti 334.941	11.2423	ppb	0.1054	0.9	3721.16	112.42309	
Tl 190.794	26.5929	ppb	1.2111	4.6	-1.8547	106.37154	
V 292.401	11.7390	ppb	0.2399	2.0	417.764	117.39043	
Zn 206.200	20.4349	ppb	0.6811	3.3	62.9011	102.17452	

E08192015.wvq. All Data Report 8/20/2015, 3:03:52 PM

Interf Check A (ICSA)		8/19/2015, 2:20:28 PM		Rack S, Tube 5		
Weight: 1		Volume: 1		Dilution: 1		
Label	Replicates	Concentration				
Ag 328.068	-0.3201u	-0.1893u	0.4137u			
Al 308.215	487017	483304	489243			
As 188.980	7.9727	0.5917u	7.7663			
B 249.678	-3.3618u	-4.9325u	-4.5185u			
Ba 389.178	1.3687	0.0768	1.9143			
Be 313.042	-0.1397u	-0.1424u	-0.1567u			
Ca 370.602	485709	482740	489174			
Cd 226.502	0.2260	0.1620	0.2685			
Co 228.615	-0.0962u	0.4332	-0.5220u			
Cr 267.716	0.1534	-0.0082	0.0207			
Cu 324.754	2.6905	1.9575	1.9389			
Fe 271.441	184944	182824	185694			
K 766.491	-0.0356u	1.6144	1.3630			
Mg 279.078	483094	478685	485421			
Mn 257.610	1.7414	1.5276	1.8446			
Mo 202.032	0.9732u	-0.7909u	1.3568			
Na 330.237	-420.629u	-178.491u	-163.755u			
Ni 231.604	2.0728	-1.5144	2.9075			
Pb 220.353	-6.6473u	-4.6839	-4.0797			
Sb 206.834	1.7748u	1.3865u	4.0170			
Se 196.026	11.3670	6.6979	8.2055			
Sn 189.925	3.2450	-0.6160u	-1.5451u			
Sr 216.596	-9.5117	-8.5186	-9.0951			
Ti 334.941	2.8121	2.8283	2.8260			
Tl 190.794	6.4800u	0.5638u	3.6216u			
V 292.401	1.9796	2.0144	2.1250			
Zn 206.200	4.3616	2.2875	4.5778			
Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)	QC Value
Ag 328.068	-0.0319	ppb	0.3914	1227.3	-33.6734	-0.03189
Al 308.215	486521	ppb	3000.27	0.6	4138198	-
As 188.980	5.4436	ppb	4.2031	77.2	-8.2728	5.44357
B 249.678	-4.2709	ppb	0.8141	19.1	-479.101	-4.27094
Ba 389.178	1.1200	ppb	0.9437	84.3	1137.87	1.11997
Be 313.042	-0.1463	ppb	0.0091	6.3	-835.145	-0.14626
Ca 370.602	485875	ppb	3220	0.7	2678597	-
Cd 226.502	0.2188	ppb	0.0536	24.5	1224.00	0.21884
Co 228.615	-0.0616	ppb	0.4785	776.3	-79.4666	-0.06164
Cr 267.716	0.0553	ppb	0.0862	155.8	128.695	0.05531
Cu 324.754	2.1956	ppb	0.4287	19.5	444.511	2.19562
Fe 271.441	184488	ppb	1488.60	0.8	498278	-
K 766.491	0.9806	ppb	0.8890	90.7	589.569	0.98062
Mg 279.078	482400	ppb	3420.93	0.7	2534042	-
Mn 257.610	1.7046	ppb	0.1617	9.5	7288.33	1.70455
Mo 202.032	0.5130	ppb	1.1454	223.3	20.7241	0.51303
Na 330.237	-254.292	ppb	144.241	56.7	86.0409	-254.29178
Ni 231.604	1.1553	ppb	2.3494	203.4	14.5035	1.15530
Pb 220.353	-5.1370	ppb	1.3424	26.1	63.0209	-5.13696
Sb 206.834	2.3928	ppb	1.4200	59.3	40.1695	2.39279
Se 196.026	8.7568	ppb	2.3829	27.2	-4.4625	8.75678
Sn 189.925	0.3613	ppb	2.5402	703.1	-29.6962	0.36131
Sr 216.596	-9.0418	ppb	0.4987	5.5	324.654	-9.04179

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Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)	QC Value
Ti 334.941	2.8221	ppb	0.0088	0.3	1960.77	2.82214
Tl 190.794	3.5552	ppb	2.9586	83.2	-73.0489	3.55516
V 292.401	2.0397	ppb	0.0759	3.7	53.1165	2.03968
Zn 206.200	3.7423	ppb	1.2645	33.8	12.8784	3.74231

Interf Check AB (ICSAB)      8/19/2015, 2:25:04 PM      Rack S, Tube 6  
 Weight: 1      Volume: 1      Dilution: 1

Label	Replicates	Concentration					
Ag 328.068	223.630	215.243	216.983				
Al 308.215	502781	511101	510127				
As 188.980	109.078	106.517	112.469				
B 249.678	-6.0207u	-5.8590u	-6.3856u				
Ba 389.178	507.411	515.664	514.808				
Be 313.042	494.019	501.366	501.370				
Ca 370.602	502840	510927	509715				
Cd 226.502	962.238	975.704	975.406				
Co 228.615	483.695	474.242	489.525				
Cr 267.716	506.221	513.772	513.474				
Cu 324.754	544.528	559.315	534.234				
Fe 271.441	191070	194215	193851				
K 766.491	0.6044	1.3880	1.2370				
Mg 279.078	498343	507221	506739				
Mn 257.610	511.625	520.481	519.755				
Mo 202.032	1045.65	1060.03	1057.22				
Na 330.237	-445.225u	-543.830u	-612.876u				
Ni 231.604	943.051	960.688	955.548				
Pb 220.353	38.7090	38.0588	45.1841				
Sb 206.834	643.763	648.322	659.237				
Se 196.026	46.8625	48.6704	62.9213				
Sn 189.925	1064.28	1077.85	1076.48				
Sr 216.596	-11.3489	-11.5125	-11.8182				
Ti 334.941	2.8899	2.8895	3.0161				
Tl 190.794	99.6831	103.412	98.8567				
V 292.401	497.642	504.753	504.705				
Zn 206.200	949.031	962.685	963.695				

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)	QC Value
Ag 328.068	218.618	ppb	4.4267	2.0	20718.8	109.30923
Al 308.215	508003	ppb	4548.56	0.9	4321011	101.60065
As 188.980	109.354	ppb	2.9860	2.7	113.891	109.35450
B 249.678	-6.0885	ppb	0.2698	4.4	-527.107	-
Ba 389.178	512.627	ppb	4.5379	0.9	18106.3	102.52549
Be 313.042	498.918	ppb	4.2425	0.9	1332760	99.78364
Ca 370.602	507827	ppb	4361	0.9	2799651	101.56548
Cd 226.502	971.116	ppb	7.6898	0.8	86962.8	97.11162
Co 228.615	482.487	ppb	7.7130	1.6	9395.36	96.49745
Cr 267.716	511.156	ppb	4.2763	0.8	41456.9	102.23116
Cu 324.754	546.026	ppb	12.6072	2.3	37450.3	109.20518
Fe 271.441	193045	ppb	1720.50	0.9	521478	96.52264
K 766.491	1.0765	ppb	0.4158	38.6	595.494	-
Mg 279.078	504101	ppb	4992.51	1.0	2648011	100.82016
Mn 257.610	517.287	ppb	4.9167	1.0	182374	103.45735
Mo 202.032	1054.30	ppb	7.6185	0.7	9567.69	105.42992

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Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)	QC Value
Na 330.237	-533.977	ppb	84.2586	15.8	57.9124	-
Ni 231.604	953.096	ppb	9.0705	1.0	5119.77	95.30956
Pb 220.353	40.6506	ppb	3.9395	9.7	209.509	81.30122
Sb 206.834	650.441	ppb	7.9517	1.2	1104.18	108.40677
Se 196.026	52.8181	ppb	8.7962	16.7	29.9484	105.63610
Sn 189.925	1072.87	ppb	7.4716	0.7	1709.01	107.28664
Sr 216.596	-11.5598	ppb	0.2382	2.1	224.823	-
Ti 334.941	2.9318	ppb	0.0730	2.5	2041.26	-
Tl 190.794	100.651	ppb	2.4268	2.4	107.303	100.65054
V 292.401	502.367	ppb	4.0917	0.8	18899.9	100.47339
Zn 206.200	958.470	ppb	8.1904	0.9	2873.80	95.84701

LRA1 (Samp) 8/19/2015, 2:29:40 PM

Weight: 1 Volume: 1

Rack S, Tube 7

Dilution: 1

Label	Replicates	Concentration
Ag 328.068	-1.5191	-1.5864
Al 308.215	90.4939	84.4011
As 188.980	21594.9x	20449.1x
B 249.678	5210.25x	5115.08x
Ba 389.178	1.2410	1.6066
Be 313.042	0.1956	0.1997
Ca 370.602	-2012	-2090
Cd 226.502	0.4323u	0.4878u
Co 228.615	10694.2	10395.9
Cr 267.716	3.4821	3.1405
Cu 324.754	-2.0208u	-1.4174u
Fe 271.441	276.955	263.956
K 766.491	1.7187	2.4672
Mg 279.078	117.996u	120.255u
Mn 257.610	29644.3x	29147.0x
Mo 202.032	2.0154	1.1072
Na 330.237	-4151.21u	-3979.33u
Ni 231.604	10740.2x	10527.3x
Pb 220.353	21409.8x	20917.8x
Sb 206.834	-3.6768u	5.9197
Se 196.026	6.1029	0.2702
Sn 189.925	-0.4469u	-2.7442u
Sr 216.596	4.4377u	5.0011u
Ti 334.941	29755.3x	29157.3x
Tl 190.794	11.9938	8.2851
V 292.401	8.6952	8.1802
Zn 206.200	0.9030	0.8078

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-1.4403b	ppb	0.1976	13.7	46.8249
Al 308.215	87.8752b	ppb	3.1352	3.6	1350.54
As 188.980	21532.5xb	ppb	1053.54	4.9	25465.3
B 249.678	5203.40xb	ppb	85.1149	1.6	100709
Ba 389.178	1.2428b	ppb	0.3629	29.2	-171.157
Be 313.042	0.1998b	ppb	0.0043	2.2	-201.525
Ca 370.602	-2032b	ppb	51.20	2.5	15508
Cd 226.502	0.3691b	ppb	0.1600	43.3	-0.6041
Co 228.615	10614.6b	ppb	191.642	18	210750

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Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Cr 267.716	3.3171b	ppb	0.1711	5.2	622.769
Cu 324.754	-1.3029b	ppb	0.7815	60.0	133.085
Fe 271.441	273.969b	ppb	8.9043	3.3	2709.80
K 766.491	1.9522b	ppb	0.4467	22.9	649.628
Mg 279.078	118.941b	ppb	1.1741	1.0	-445.835
Mn 257.610	29585.6xb	ppb	412.484	1.4	10030305
Mo 202.032	1.5555b	ppb	0.4542	29.2	41.5393
Na 330.237	-4168.13b	ppb	197.805	4.7	-168.271
Ni 231.604	10693.1xb	ppb	147.991	1.4	57305.9
Pb 220.353	21284.8xb	ppb	323.239	1.5	69168.4
Sb 206.834	0.8632b	ppb	4.8190	558.3	41.5151
Se 196.026	0.9425b	ppb	4.8592	515.6	2.3462
Sn 189.925	-0.3932b	ppb	2.3783	604.8	-30.9201
Sr 216.596	4.3981b	ppb	0.6238	14.2	-405.562
Ti 334.941	29641.9xb	ppb	438.967	1.5	9795601
Tl 190.794	11.5485b	ppb	3.0652	26.5	45.5978
V 292.401	8.6667b	ppb	0.4729	5.5	614.478
Zn 206.200	0.8064b	ppb	0.0973	12.1	4.0413

LRA2 (Samp)

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Rack S, Tube 8

**Weight:** 1

Volume: 1

**Dilution: 1**

Label	Replicates	Concentration	
Ag 328.068	1.8006u	1.9537	2.2922
Al 308.215	738912	743983	747785
As 188.980	100.864	73.6938	66.3943
B 249.678	7.7182u	0.0330u	-5.9256u
Ba 389.178	-2.0369	-0.1864	-0.6799
Be 313.042	-0.1609u	-0.1602u	-0.1510
Ca 370.602	766823	771874	784447
Cd 226.502	-2.3556	-1.8163	-1.8652
Co 228.615	0.7055u	1.4176u	1.1224u
Cr 267.716	-1.7135	-1.4044	-1.3866
Cu 324.754	5.9403	4.3097	4.3661
Fe 271.441	903308	908587	912793
K 766.491	25.2877	25.4175	25.6192
Mg 279.078	775620	777177x	781283x
Mn 257.610	3.3770	3.5816	3.5775
Mo 202.032	0.3066u	0.0120u	1.8808u
Na 330.237	-1085.34u	-1119.74u	-1027.67u
Ni 231.604	-12.2595	-10.9159	-12.2556
Pb 220.353	-28.7896	-19.8030	-18.5457
Sb 206.834	-10.0251u	-9.7157u	-7.8365u
Se 196.026	30.6676	24.5168	25.1676
Sn 189.925	2.0177	3.4448	-0.5415u
Sr 216.596	-54.2848	-54.4479	-54.8209
Ti 334.941	3.7848	3.5047	3.4107
Tl 190.794	30.1637u	26.0747u	16.6389u
V 292.401	3.0079	3.2035	3.8768
Zn 206.200	-8.0157u	-7.5724u	-8.1541u

<b>Label</b>	<b>Sol'n Conc.</b>	<b>Units</b>	<b>SD</b>	<b>%RSD</b>	<b>Int. (c/s)</b>
Ag 328.068	2.0155b	ppb	0.2516	12.5	19.3516
Al 308.215	743560b	ppb	4451.56	0.6	6324208

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<b>Label</b>	<b>Sol'n Conc.</b>	<b>Units</b>	<b>SD</b>	<b>%RSD</b>	<b>Int. (c/s)</b>
As 188.980	80.3174b	ppb	18.1644	22.6	71.9506
B 249.678	0.6085b	ppb	6.8401	1124.1	-2313.69
Ba 389.178	-0.9677b	ppb	0.9582	99.0	2366.55
Be 313.042	-0.1574b	ppb	0.0055	3.5	-726.003
Ca 370.602	774381b	ppb	9076	1.2	4254251
Cd 226.502	-2.0124b	ppb	0.2983	14.8	5345.12
Co 228.615	1.0818b	ppb	0.3577	33.1	-84.4507
Cr 267.716	-1.5015b	ppb	0.1838	12.2	292.297
Cu 324.754	4.8720b	ppb	0.9256	19.0	914.880
Fe 271.441	908229b	ppb	4752.69	0.5	2452408
K 766.491	25.4415b	ppb	0.1670	0.7	2101.67
Mg 279.078	778027xb	ppb	2925.39	0.4	4086928
Mn 257.610	3.5120b	ppb	0.1170	3.3	14821.2
Mo 202.032	0.7331b	ppb	1.0047	137.0	-22.1658
Na 330.237	-1077.58b	ppb	46.5183	4.3	-278.359
Ni 231.604	-11.8103b	ppb	0.7746	6.6	13.4690
Pb 220.353	-22.3794b	ppb	5.5868	25.0	121.518
Sb 206.834	-9.1924b	ppb	1.1845	12.9	5.8171
Se 196.026	26.7840b	ppb	3.3790	12.6	4.0650
Sn 189.925	1.6403b	ppb	2.0197	123.1	-27.6260
Sr 216.596	-54.5179b	ppb	0.2748	0.5	1132.72
Ti 334.941	3.5667b	ppb	0.1946	5.5	2912.56
Tl 190.794	24.2924b	ppb	6.9363	28.6	-146.085
V 292.401	3.3627b	ppb	0.4558	13.6	107.544
Zn 206.200	-7.9141b	ppb	0.3039	3.8	-22.1191

**LRA3 (Samp)**                   **8/19/2015, 2:38:55 PM**                   **Rack S, Tube 9**  
**Weight: 1**                   **Volume: 1**                   **Dilution: 1**

<b>Label</b>	<b>Replicates</b>	<b>Concentration</b>
Ag 328.068	-0.1111u	0.0292
Al 308.215	18.5945	30.5429
As 188.980	13.5240	16.3890
B 249.678	10.7864	11.4057
Ba 389.178	1.5030	2.0162
Be 313.042	0.0094	0.0285
Ca 370.602	41.02	54.85
Cd 226.502	0.7599	0.7061
Co 228.615	0.4303	0.5759
Cr 267.716	-0.2387u	-0.0358u
Cu 324.754	0.3851	1.3429
Fe 271.441	31.5921	49.5678
K 766.491	40797.0x	41003.2x
Mg 279.078	28.0122	42.3921
Mn 257.610	0.2641	0.2869
Mo 202.032	0.5191	1.0256
Na 330.237	104907x	105565x
Ni 231.604	1.7900	1.5567
Pb 220.353	-3.3731u	0.7808
Sb 206.834	-4.6285u	-0.0839u
Se 196.026	-1.6245u	-3.5858u
Sn 189.925	-1.1779u	-2.1926u
Sr 216.596	0.4441	0.4574
Ti 334.941	0.4521	0.5269

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Label	Replicates Concentration		
Tl 190.794	2.5927	4.1285	1.1492
V 292.401	0.3062	0.0528	0.3754
Zn 206.200	29447.4x	29540.1x	29854.9x

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	0.0536b	ppb	0.1782	332.3	16.5801
Al 308.215	29.1731b	ppb	9.9646	34.2	939.450
As 188.980	16.5325b	ppb	3.0828	18.6	6.9823
B 249.678	10.8908b	ppb	0.4715	4.3	306.160
Ba 389.178	2.0378b	ppb	0.5459	26.8	-145.247
Be 313.042	0.0194b	ppb	0.0095	49.3	-676.313
Ca 370.602	52.58b	ppb	10.61	20.2	254.5
Cd 226.502	0.6765b	ppb	0.1015	15.0	149.751
Co 228.615	0.4746b	ppb	0.0880	18.5	-61.9875
Cr 267.716	-0.1742b	ppb	0.1200	68.9	31.4703
Cu 324.754	0.9714b	ppb	0.5138	52.9	287.771
Fe 271.441	45.0773b	ppb	11.8938	26.4	277.044
K 766.491	41153.4xb	ppb	450.734	1.1	2544517
Mg 279.078	39.7675b	ppb	10.6874	26.9	318.616
Mn 257.610	0.2940b	ppb	0.0340	11.6	136.613
Mo 202.032	0.8360b	ppb	0.2762	33.0	35.0985
Na 330.237	105764xb	ppb	972.287	0.9	8977.33
Ni 231.604	1.6723b	ppb	0.1167	7.0	-0.4555
Pb 220.353	-0.5757b	ppb	2.4231	420.9	60.6475
Sb 206.834	-3.4465b	ppb	2.9546	85.7	34.3277
Se 196.026	-1.7268b	ppb	1.8100	104.8	-11.2222
Sn 189.925	-0.9616b	ppb	1.3522	140.6	-31.7710
Sr 216.596	0.4119b	ppb	0.0677	16.4	68.5229
Ti 334.941	0.4449b	ppb	0.0857	19.3	143.020
Tl 190.794	2.6235b	ppb	1.4899	56.8	-46.3612
V 292.401	0.2448b	ppb	0.1698	69.4	-20.6021
Zn 206.200	29614.1xb	ppb	213.596	0.7	88873.9

Cont Calib Verif (CCV)      8/19/2015, 2:43:31 PM      Rack 1, Tube 1  
 Weight: 1      Volume: 1      Dilution: 1

Label	Replicates Concentration		
Ag 328.068	508.795	507.117	509.330
Al 308.215	4944.40	4887.87	4945.38
As 188.980	512.139	512.076	510.196
B 249.678	486.940	480.026	488.429
Ba 389.178	4962.52	4919.45	4973.96
Be 313.042	493.903	489.253	494.450
Ca 370.602	5276	5218	5285
Cd 226.502	503.558	496.572	502.345
Co 228.615	497.724	491.022	495.823
Cr 267.716	5099.88	5053.91	5106.77
Cu 324.754	5096.47	5114.80	5031.68
Fe 271.441	4916.06	4853.89	4918.02
K 766.491	9955.09	9833.83	9930.72
Mg 279.078	4946.82	4884.41	4942.16
Mn 257.610	5011.71	4949.28	5002.98
Mo 202.032	504.529	497.350	502.697
Na 330.237	7230.62	7098.17	7191.97

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Label	Replicates	Concentration					
Ni 231.604	2478.23	2450.14	2469.93				
Pb 220.353	501.965	494.860	503.193				
Sb 206.834	1004.99	999.023	1004.97				
Se 196.026	4908.01	4837.80	4895.03				
Sn 189.925	5071.15	4979.68	4924.59				
Sr 216.596	2511.53	2482.27	2503.96				
Ti 334.941	491.275	486.542	491.975				
Tl 190.794	5035.54	4968.85	5019.80				
V 292.401	4945.01	4895.06	4946.59				
Zn 206.200	2501.17	2467.88	2495.99				

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)	QC Value	
Ag 328.068	508.414	ppb	1.1546	0.2	48206.7	101.68288	
Al 308.215	4925.88	ppb	32.9212	0.7	43269.2	98.51767	
As 188.980	511.470	ppb	1.1039	0.2	592.226	102.29407	
B 249.678	485.132	ppb	4.4841	0.9	9480.14	97.02632	
Ba 389.178	4951.98	ppb	28.7430	0.6	163454	99.03958	
Be 313.042	492.535	ppb	2.8558	0.6	1315895	98.50703	
Ca 370.602	5260	ppb	36.00	0.7	29635	105.19361	
Cd 226.502	500.825	ppb	3.7326	0.7	44319.1	100.16499	
Co 228.615	494.856	ppb	3.4542	0.7	9709.85	98.97124	
Cr 267.716	5086.86	ppb	28.7390	0.6	411486	101.73712	
Cu 324.754	5080.98	ppb	43.6690	0.9	345581	101.61969	
Fe 271.441	4895.99	ppb	36.4693	0.7	13558.6	97.91981	
K 766.491	9906.55	ppb	64.1431	0.6	612924	99.06547	
Mg 279.078	4924.46	ppb	34.7672	0.7	25777.8	98.48926	
Mn 257.610	4987.99	ppb	33.8068	0.7	1691172	99.75977	
Mo 202.032	501.525	ppb	3.7302	0.7	4564.32	100.30503	
Na 330.237	7173.59	ppb	68.1082	0.9	776.527	95.64782	
Ni 231.604	2466.10	ppb	14.4350	0.6	13217.8	98.64394	
Pb 220.353	500.006	ppb	4.4986	0.9	1690.50	100.00114	
Sb 206.834	1002.99	ppb	3.4384	0.3	1779.66	100.29938	
Se 196.026	4880.28	ppb	37.3535	0.8	3788.43	97.60561	
Sn 189.925	4991.81	ppb	74.0304	1.5	8062.27	99.83615	
Sr 216.596	2499.25	ppb	15.1877	0.6	58499.1	99.97018	
Ti 334.941	489.931	ppb	2.9555	0.6	161920	97.98618	
Tl 190.794	5008.06	ppb	34.8568	0.7	9252.78	100.16129	
V 292.401	4928.89	ppb	29.3075	0.6	188345	98.57777	
Zn 206.200	2488.34	ppb	17.9139	0.7	7427.18	99.53375	

Cont Calib Blank (CCB)      8/19/2015, 2:48:05 PM      Rack 1, Tube 2  
 Weight: 1      Volume: 1      Dilution: 1

Label	Replicates	Concentration					
Ag 328.068	0.4140	0.3023	-0.0758u				
Al 308.215	-10.7195u	-14.9249u	-13.1664u				
As 188.980	-1.4669u	3.9912	3.2116				
B 249.678	8.4345	8.1484	7.6557				
Ba 389.178	1.0456	2.1102	1.7469				
Be 313.042	0.0389	0.0296	0.0386				
Ca 370.602	9.791	8.925	9.040				
Cd 226.502	0.6084	0.3886	0.4029				
Co 228.615	-0.1314u	0.7618	0.2494				
Cr 267.716	0.3029	0.3493	0.3382				

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Label	Replicates Concentration		
Cu 324.754	1.1232	1.7359	1.2285
Fe 271.441	-1.6728u	-3.2390u	-2.9010u
K 766.491	0.6642	0.3313	0.3107
Mg 279.078	0.8441	-2.3890u	1.2058
Mn 257.610	0.4338	0.3757	0.4455
Mo 202.032	0.7787	0.7148	0.6122
Na 330.237	120.539	70.3652	-100.294u
Ni 231.604	1.6819	1.8979	2.7452
Pb 220.353	-1.2351u	-3.5769u	-2.1831u
Sb 206.834	3.6142	-6.8747u	-8.2235u
Se 196.026	6.2458	2.2162	1.4123
Sn 189.925	2.6975	1.3886	0.7837
Sr 216.596	0.8242	0.6767	0.4370
Ti 334.941	0.1988	0.1609	0.0978
Tl 190.794	4.1857	2.4870	0.8142
V 292.401	0.5664	0.7766	0.1753
Zn 206.200	1.5202	0.4619	-0.0138u

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)	QC Value
Ag 328.068	0.2135	ppb	0.2567	120.2	31.7540	0.21349
Al 308.215	-12.9370	ppb	2.1121	16.3	581.361	-12.93697
As 188.980	1.9120	ppb	2.9520	154.4	-10.3166	1.91195
B 249.678	8.0795	ppb	0.3939	4.9	251.762	8.07950
Ba 389.178	1.6342	ppb	0.5412	33.1	-158.722	1.63424
Be 313.042	0.0357	ppb	0.0053	14.9	-616.181	0.03569
Ca 370.602	9.252	ppb	0.4707	5.1	16.23	9.25188
Cd 226.502	0.4667	ppb	0.1230	26.4	132.241	0.46666
Co 228.615	0.2933	ppb	0.4482	152.8	-65.6199	0.29330
Cr 267.716	0.3301	ppb	0.0242	7.3	70.1255	0.33013
Cu 324.754	1.3626	ppb	0.3276	24.0	314.329	1.36257
Fe 271.441	-2.6043	ppb	0.8242	31.6	148.271	-2.60427
K 766.491	0.4354	ppb	0.1984	45.6	555.864	0.43539
Mg 279.078	-0.1130	ppb	1.9794	1751.3	109.130	-0.11302
Mn 257.610	0.4183	ppb	0.0374	8.9	178.833	0.41834
Mo 202.032	0.7019	ppb	0.0840	12.0	33.8868	0.70192
Na 330.237	30.2035	ppb	115.765	383.3	185.221	30.20351
Ni 231.604	2.1083	ppb	0.5620	26.7	1.8217	2.10830
Pb 220.353	-2.3317	ppb	1.1780	50.5	54.9379	-2.33170
Sb 206.834	-3.8280	ppb	6.4803	169.3	33.7081	-3.82798
Se 196.026	3.2914	ppb	2.5899	78.7	-7.3181	3.29142
Sn 189.925	1.6233	ppb	0.9783	60.3	-27.6494	1.62326
Sr 216.596	0.6460	ppb	0.1954	30.3	73.9015	0.64598
Ti 334.941	0.1525	ppb	0.0510	33.5	55.4381	0.15250
Tl 190.794	2.4956	ppb	1.6858	67.5	-46.5901	2.49561
V 292.401	0.5061	ppb	0.3051	60.3	-9.4847	0.50608
Zn 206.200	0.6561	ppb	0.7852	119.7	3.6225	0.65609

Cont Calib Verif (CCV)      8/19/2015, 4:23:30 PM      Rack 1, Tube 13  
 Weight: 1      Volume: 1      Dilution: 1

Label	Replicates Concentration		
Ag 328.068	506.926	500.979	494.700
Al 308.215	4881.72	4892.93	4910.64
As 188.980	488.777	490.591	488.173

Label	Replicates	Concentration					
B 249.678	474.309	477.966	482.063				
Ba 389.178	4905.08	4921.18	4900.02				
Be 313.042	490.776	490.412	492.696				
Ca 370.602	5249	5248	5302				
Cd 226.502	496.305	499.694	501.607				
Co 228.615	491.449	493.435	491.769				
Cr 267.716	5078.61	5073.78	5092.75				
Cu 324.754	5114.48	5194.18	5143.52				
Fe 271.441	4876.40	4883.30	4895.36				
K 766.491	9849.48	9784.32	9823.39				
Mg 279.078	4890.53	4900.03	4925.33				
Mn 257.610	4972.57	4970.98	4994.22				
Mo 202.032	500.922	501.765	505.149				
Na 330.237	7093.19	7077.01	6998.93				
Ni 231.604	2445.26	2459.17	2470.43				
Pb 220.353	497.366	500.206	499.339				
Sb 206.834	984.739	992.003	997.794				
Se 196.026	4850.10	4883.33	4888.53				
Sn 189.925	4858.67	4840.06	4952.55				
Sr 216.596	2478.89	2489.63	2501.93				
Ti 334.941	485.761	485.998	488.272				
Tl 190.794	4946.38	4988.01	4990.94				
V 292.401	4892.83	4902.52	4913.32				
Zn 206.200	2472.55	2479.55	2497.35				

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)	QC Value	
Ag 328.068	500.868	ppb	6.1136	1.2	47491.4	100.17368	
Al 308.215	4895.10	ppb	14.5802	0.3	43003.8	97.90193	
As 188.980	489.180	ppb	1.2582	0.3	565.853	97.83606	
B 249.678	478.113	ppb	3.8789	0.8	9344.28	95.62254	
Ba 389.178	4908.76	ppb	11.0478	0.2	162026	98.17522	
Be 313.042	491.294	ppb	1.2269	0.2	1312578	98.25890	
Ca 370.602	5266	ppb	30.57	0.6	29668	105.32851	
Cd 226.502	499.202	ppb	2.6853	0.5	44175.8	99.84040	
Co 228.615	492.217	ppb	1.0664	0.2	9657.68	98.44347	
Cr 267.716	5081.71	ppb	9.8586	0.2	411070	101.63430	
Cu 324.754	5150.72	ppb	40.3348	0.8	350322	103.01447	
Fe 271.441	4885.02	ppb	9.5966	0.2	13528.2	97.70040	
K 766.491	9819.06	ppb	32.7903	0.3	607515	98.19061	
Mg 279.078	4905.30	ppb	17.9868	0.4	25677.6	98.10591	
Mn 257.610	4979.26	ppb	12.9834	0.3	1688212	99.58521	
Mo 202.032	502.612	ppb	2.2371	0.4	4574.20	100.52238	
Na 330.237	7056.38	ppb	50.4041	0.7	766.755	94.08504	
Ni 231.604	2458.29	ppb	12.6097	0.5	13175.9	98.33154	
Pb 220.353	498.970	ppb	1.4551	0.3	1687.12	99.79406	
Sb 206.834	991.512	ppb	6.5417	0.7	1760.23	99.15121	
Se 196.026	4873.99	ppb	20.8538	0.4	3783.53	97.47974	
Sn 189.925	4883.76	ppb	60.2979	1.2	7887.11	97.67525	
Sr 216.596	2490.15	ppb	11.5291	0.5	58286.3	99.60593	
Ti 334.941	486.677	ppb	1.3862	0.3	160845	97.33540	
Tl 190.794	4975.11	ppb	24.9235	0.5	9191.59	99.50219	
V 292.401	4902.89	ppb	10.2516	0.2	187351	98.05777	
Zn 206.200	2483.15	ppb	12.7864	0.5	7411.79	99.32603	

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Cont Calib Blank (CCB)		8/19/2015, 4:28:03 PM		Rack 1, Tube 14		
Weight: 1		Volume: 1		Dilution: 1		
Label	Replicates	Concentration				
Ag 328.068	0.2655	-0.0486u	0.3340			
Al 308.215	-13.7928u	-13.7444u	-13.4529u			
As 188.980	1.9725	-0.1367u	-1.7114u			
B 249.678	3.7221	3.2299	3.8374			
Ba 389.178	1.3084	1.7135	1.9656			
Be 313.042	0.0048	-0.0051u	0.0005			
Ca 370.602	3.588	5.809	5.220			
Cd 226.502	0.3424	0.3619	0.5295			
Co 228.615	-0.4500u	-0.1055u	0.2930			
Cr 267.716	-0.2997u	-0.0526u	-0.1910u			
Cu 324.754	0.9282	1.0712	0.9092			
Fe 271.441	-5.4342u	-5.8899u	-11.1938u			
K 766.491	-0.4053u	-1.2635u	-1.7097u			
Mg 279.078	-0.6367u	-2.3617u	-3.1727u			
Mn 257.610	0.0465	0.0261	-0.0151u			
Mo 202.032	-0.0935u	0.9113	0.7222			
Na 330.237	86.4840	-41.6262u	75.7739			
Ni 231.604	1.0084	0.3427	0.1187			
Pb 220.353	-0.6598u	-1.7664u	-0.2416u			
Sb 206.834	-6.9328u	-3.2488u	-4.8083u			
Se 196.026	-6.8079u	2.1784	-5.0533u			
Sn 189.925	1.3800	-0.3689u	1.0293			
Sr 216.596	0.1946	0.0301	0.1923			
Ti 334.941	-0.0288u	0.0458	0.0028			
Tl 190.794	-0.6343u	2.2773	2.2138			
V 292.401	0.2988	-0.2993u	0.3311			
Zn 206.200	-0.0029u	0.1436	0.0821			

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)	QC Value
Ag 328.068	0.1836	ppb	0.2040	111.1	28.9314	0.18363
Al 308.215	-13.6634	ppb	0.1839	1.3	575.128	-13.66335
As 188.980	0.0415	ppb	1.8484	4458.8	-12.5298	0.04146
B 249.678	3.5965	ppb	0.3227	9.0	165.023	3.59647
Ba 389.178	1.6625	ppb	0.3316	19.9	-157.798	1.66248
Be 313.042	0.0001	ppb	0.0049	5496.2	-711.330	0.00009
Ca 370.602	4.872	ppb	1.151	23.6	-8.053	4.87247
Cd 226.502	0.4113	ppb	0.1028	25.0	127.355	0.41129
Co 228.615	-0.0875	ppb	0.3718	425.0	-73.1437	-0.08750
Cr 267.716	-0.1811	ppb	0.1238	68.4	28.7770	-0.18106
Cu 324.754	0.9695	ppb	0.0886	9.1	287.613	0.96955
Fe 271.441	-7.5060	ppb	3.2019	42.7	134.958	-7.50598
K 766.491	-1.1262	ppb	0.6629	58.9	459.334	-1.12615
Mg 279.078	-2.0570	ppb	1.2952	63.0	98.9334	-2.05704
Mn 257.610	0.0191	ppb	0.0314	164.0	43.4507	0.01913
Mo 202.032	0.5134	ppb	0.5340	104.0	32.1787	0.51335
Na 330.237	40.2106	ppb	71.0747	176.8	186.058	40.21057
Ni 231.604	0.4899	ppb	0.4628	94.5	-6.8579	0.48994
Pb 220.353	-0.8893	ppb	0.7879	88.6	59.6230	-0.88925
Sb 206.834	-4.9966	ppb	1.8492	37.0	31.7636	-4.99663
Se 196.026	-3.2276	ppb	4.7632	147.6	-12.3895	-3.22760
Sn 189.925	0.6801	ppb	0.9252	136.0	-29.1784	0.68011
Sr 216.596	0.1390	ppb	0.0943	67.9	62.0761	0.13898

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Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)	QC Value
Ti 334.941	0.0066	ppb	0.0374	567.5	7.2194	0.00660
Tl 190.794	1.2856	ppb	1.6629	129.4	-48.8367	1.28559
V 292.401	0.1102	ppb	0.3550	322.2	-24.5923	0.11020
Zn 206.200	0.0743	ppb	0.0736	99.0	1.8806	0.07429

NI 40 (Samp)

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Rack 1, Tube 15

Weight: 1

Volume: 1

Dilution: 1

Label	Replicates	Concentration				
Ag 328.068	0.2502	-0.1357u	0.0016			
Al 308.215	-13.4877u	-12.5283u	-17.1439u			
As 188.980	-2.2264u	-3.8520u	-0.4463u			
B 249.678	1.5837	1.5327	0.4578			
Ba 389.178	1.7051	0.8852	2.3031			
Be 313.042	-0.0046u	-0.0072u	0.0069			
Ca 370.602	4.406	5.614	6.808			
Cd 226.502	0.4274	0.3804	0.5330			
Co 228.615	0.0016u	-0.2033u	0.5011			
Cr 267.716	-0.1328u	-0.0372u	-0.0424u			
Cu 324.754	1.3248	0.1486	-0.1447u			
Fe 271.441	-5.8110u	-0.8866u	-8.1286u			
K 766.491	-0.9484u	0.0351	-0.6648u			
Mg 279.078	-0.9982u	-1.4660u	-3.6321u			
Mn 257.610	0.1437	0.0834	0.0747			
Mo 202.032	0.1877	1.0699	0.4670			
Na 330.237	138.787	31.2111	23.1376			
Ni 231.604	41.4465	42.1515	39.7976			
Pb 220.353	-2.0506u	2.7063	0.5333			
Sb 206.834	-5.5180u	-9.4405u	0.6038			
Se 196.026	-2.7014u	-3.3693u	-0.3747u			
Sn 189.925	-0.4838u	-0.7374u	-0.1766u			
Sr 216.596	-0.1219u	0.0784u	0.5432			
Ti 334.941	-0.0696u	0.0111	-0.0546u			
Tl 190.794	-1.3061u	-1.0060u	1.3074			
V 292.401	0.2462	0.6175	0.1824			
Zn 206.200	0.1672	0.4477	-0.0821u			

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	0.0387	ppb	0.1956	505.4	15.1850
Al 308.215	-14.3866	ppb	2.4356	16.9	569.013
As 188.980	-2.1749	ppb	1.7034	78.3	-15.1522
B 249.678	1.1914	ppb	0.6358	53.4	118.500
Ba 389.178	1.6311	ppb	0.7118	43.6	-158.829
Be 313.042	-0.0016	ppb	0.0075	459.7	-715.918
Ca 370.602	5.610	ppb	1.201	21.4	-3.923
Cd 226.502	0.4470	ppb	0.0782	17.5	130.483
Co 228.615	0.0998	ppb	0.3623	363.0	-69.4470
Cr 267.716	-0.0708	ppb	0.0537	75.9	37.6934
Cu 324.754	0.4429	ppb	0.7777	175.6	251.810
Fe 271.441	-4.9421	ppb	3.6983	74.8	141.907
K 766.491	-0.5261	ppb	0.5063	96.2	496.430
Mg 279.078	-2.0321	ppb	1.4053	69.2	99.0619
Mn 257.610	0.1006	ppb	0.0376	37.4	71.0809
Mo 202.032	0.5749	ppb	0.4509	78.4	32.7360

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Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Na 330.237	64.3784	ppb	64.5657	100.3	188.078
Ni 231.604	41.1319	ppb	1.2081	2.9	211.157
Pb 220.353	0.3963	ppb	2.3814	600.9	63.7978
Sb 206.834	-4.7849	ppb	5.0621	105.8	32.1145
Se 196.026	-2.1485	ppb	1.5720	73.2	-11.5499
Sn 189.925	-0.4659	ppb	0.2808	60.3	-31.0363
Sr 216.596	0.1666	ppb	0.3412	204.8	60.5572
Ti 334.941	-0.0377	ppb	0.0429	113.9	-7.4196
Tl 190.794	-0.3349	ppb	1.4302	427.1	-51.8396
V 292.401	0.3487	ppb	0.2350	67.4	-15.4855
Zn 206.200	0.1776	ppb	0.2651	149.3	2.1898

mb 680-396571/1-a (Samp)

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Rack 1, Tube 16

Weight: 1

Volume: 1

Dilution: 1

Label	Replicates	Concentration			
Ag 328.068	-0.1254u	-0.2582u	0.2207		
Al 308.215	-14.2642u	-16.5701u	-15.1925u		
As 188.980	-4.3115u	-3.8004u	0.8632		
B 249.678	1.6262	0.9739	1.2873		
Ba 389.178	1.9020	0.5421	1.6653		
Be 313.042	-0.0055u	-0.0021u	-0.0030u		
Ca 370.602	10.04	3.758	10.05		
Cd 226.502	0.6167	0.4003	0.4182		
Co 228.615	0.3710	0.4678	0.6529		
Cr 267.716	-0.2764u	-0.1300u	-0.1226u		
Cu 324.754	2.1916	-0.1404u	0.1588		
Fe 271.441	-0.2678u	-9.1246u	-3.7722u		
K 766.491	-1.3971u	-0.4575u	-0.9950u		
Mg 279.078	-3.7082u	-2.1418u	-3.4105u		
Mn 257.610	-0.0028u	0.0145	0.0278		
Mo 202.032	0.4087	0.2192	0.6891		
Na 330.237	161.661	36.0879	13.1127		
Ni 231.604	1.3560	2.1524	1.7441		
Pb 220.353	1.2348	-2.2149u	-0.5586u		
Sb 206.834	-6.9566u	-1.4027u	-5.0692u		
Se 196.026	4.7879	-3.3143u	2.6754		
Sn 189.925	-0.7668u	2.0633	-0.4440u		
Sr 216.596	0.0403	-0.3164u	-0.1597u		
Ti 334.941	0.0087	-0.0209u	0.0086		
Tl 190.794	0.8168	1.5963	2.7031		
V 292.401	-0.1081u	0.1629	0.0585		
Zn 206.200	0.7232	0.9757	-0.3419u		

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.0543	ppb	0.2472	455.2	6.3488
Al 308.215	-15.3423	ppb	1.1602	7.6	560.833
As 188.980	-2.4162	ppb	2.8515	118.0	-15.4377
B 249.678	1.2958	ppb	0.3262	25.2	120.571
Ba 389.178	1.3698	ppb	0.7265	53.0	-167.468
Be 313.042	-0.0035	ppb	0.0017	49.1	-721.033
Ca 370.602	7.950	ppb	3.631	45.7	8.943
Cd 226.502	0.4784	ppb	0.1201	25.1	133.264
Co 228.615	0.4972	ppb	0.1432	28.8	61.5880

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<b>Label</b>	<b>Sol'n Conc.</b>	<b>Units</b>	<b>SD</b>	<b>%RSD</b>	<b>Int. (c/s)</b>
Cr 267.716	-0.1764	ppb	0.0867	49.2	29.1571
Cu 324.754	0.7367	ppb	1.2689	172.2	271.779
Fe 271.441	-4.3882	ppb	4.4604	101.6	143.469
K 766.491	-0.9498	ppb	0.4714	49.6	470.233
Mg 279.078	-3.0868	ppb	0.8319	26.9	93.5249
Mn 257.610	0.0132	ppb	0.0153	116.3	41.4357
Mo 202.032	0.4390	ppb	0.2364	53.9	31.5050
Na 330.237	70.2872	ppb	79.9614	113.8	188.570
Ni 231.604	1.7508	ppb	0.3982	22.7	-0.0967
Pb 220.353	-0.5129	ppb	1.7253	336.4	60.8449
Sb 206.834	-4.4761	ppb	2.8240	63.1	32.6278
Se 196.026	1.3830	ppb	4.2029	303.9	-8.8028
Sn 189.925	0.2842	ppb	1.5492	545.2	-29.8203
Sr 216.596	-0.1453	ppb	0.1788	123.1	55.3889
Ti 334.941	-0.0012	ppb	0.0170	1423.2	4.6442
Tl 190.794	1.7054	ppb	0.9479	55.6	-48.0555
V 292.401	0.0378	ppb	0.1367	361.9	-27.3562
Zn 206.200	0.4523	ppb	0.6993	154.6	3.0149

lcs 680-396571/2-a (Samp)

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Rack 1, Tube 17

Weight: 1

Volume: 1

Dilution: 1

<b>Label</b>	<b>Replicates</b>	<b>Concentration</b>
Ag 328.068	103.927	98.9188
Al 308.215	9934.09	9814.86
As 188.980	215.629	205.727
B 249.678	396.073	391.152
Ba 389.178	207.776	204.922
Be 313.042	108.127	106.995
Ca 370.602	10625	10525
Cd 226.502	106.913	105.839
Co 228.615	107.419	107.051
Cr 267.716	214.226	211.788
Cu 324.754	216.426	202.543
Fe 271.441	10117.6	9998.67
K 766.491	9967.50	9813.65
Mg 279.078	9951.87	9816.87
Mn 257.610	1047.63	1035.08
Mo 202.032	209.391	206.743
Na 330.237	10061.1	9896.02
Ni 231.604	208.075	204.655
Pb 220.353	1012.05	996.762
Sb 206.834	99.9999	100.460
Se 196.026	204.459	192.529
Sn 189.925	411.624	404.950
Sr 216.596	206.280	204.558
Ti 334.941	202.724	201.861
Tl 190.794	85.4476	85.3650
V 292.401	209.495	207.427
Zn 206.200	203.240	202.011

<b>Label</b>	<b>Sol'n Conc.</b>	<b>Units</b>	<b>SD</b>	<b>%RSD</b>	<b>Int. (c/s)</b>
Ag 328.068	101.635	ppb	2.5312	2.5	9653.49
Al 308.215	9818.80	ppb	113.370	1.2	84232.2

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<b>Label</b>	<b>Sol'n Conc.</b>	<b>Units</b>	<b>SD</b>	<b>%RSD</b>	<b>Int. (c/s)</b>
As 188.980	211.195	ppb	5.0312	2.4	237.064
B 249.678	391.889	ppb	3.8680	1.0	7648.40
Ba 389.178	205.050	ppb	2.6635	1.3	6596.79
Be 313.042	106.936	ppb	1.2208	1.1	285055
Ca 370.602	10481	ppb	170.7	1.6	57825
Cd 226.502	105.787	ppb	1.1526	1.1	9486.16
Co 228.615	107.291	ppb	0.2076	0.2	2044.14
Cr 267.716	211.592	ppb	2.7363	1.3	17167.3
Cu 324.754	210.229	ppb	7.0604	3.4	14521.9
Fe 271.441	9983.59	ppb	142.105	1.4	27134.1
K 766.491	9820.92	ppb	143.086	1.5	607630
Mg 279.078	9816.96	ppb	134.865	1.4	51634.7
Mn 257.610	1034.85	ppb	12.9049	1.2	351040
Mo 202.032	206.373	ppb	3.2201	1.6	1896.52
Na 330.237	9929.88	ppb	117.996	1.2	1007.70
Ni 231.604	204.382	ppb	3.8372	1.9	1087.37
Pb 220.353	998.515	ppb	12.7493	1.3	3306.67
Sb 206.834	101.279	ppb	1.8315	1.8	207.661
Se 196.026	199.693	ppb	6.3159	3.2	145.790
Sn 189.925	405.247	ppb	6.2337	1.5	626.698
Sr 216.596	203.938	ppb	2.7043	1.3	4850.22
Ti 334.941	200.980	ppb	2.3143	1.2	66442.7
Tl 190.794	84.9828	ppb	0.7346	0.9	106.307
V 292.401	207.300	ppb	2.2616	1.1	7845.46
Zn 206.200	201.602	ppb	1.8760	0.9	604.919

lcs 680-396571/3-a (Samp)      8/19/2015, 4:46:20 PM      Rack 1, Tube 18  
 Weight: 1      Volume: 1      Dilution: 1

<b>Label</b>	<b>Replicates</b>	<b>Concentration</b>
Ag 328.068	104.104	100.150
Al 308.215	9821.99	9793.11
As 188.980	210.596	206.225
B 249.678	395.124	388.556
Ba 389.178	205.522	201.797
Be 313.042	106.768	105.084
Ca 370.602	10491	10338
Cd 226.502	106.350	104.107
Co 228.615	104.706	105.078
Cr 267.716	211.298	207.753
Cu 324.754	215.016	206.207
Fe 271.441	10008.8	9781.64
K 766.491	9811.74	9657.55
Mg 279.078	9833.10	9674.25
Mn 257.610	1034.42	1019.55
Mo 202.032	207.332	203.964
Na 330.237	9741.74	9690.17
Ni 231.604	208.486	201.880
Pb 220.353	1002.17	988.923
Sb 206.834	109.475	99.7068
Se 196.026	200.265	197.680
Sn 189.925	404.443	394.734
Sr 216.596	204.632	201.086
Ti 334.941	200.757	199.678

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Label	Replicates Concentration			
Tl 190.794	83.7318	86.2642	84.5619	
V 292.401	207.623	204.336	204.185	
Zn 206.200	201.794	200.270	199.413	

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	102.397	ppb	2.0317	2.0	9725.83
Al 308.215	9759.43	ppb	84.5961	0.9	83726.9
As 188.980	208.057	ppb	2.2697	1.1	233.354
B 249.678	391.017	ppb	3.5799	0.9	7631.88
Ba 389.178	202.990	ppb	2.1943	1.1	6528.35
Be 313.042	105.619	ppb	0.9959	0.9	281534
Ca 370.602	10378	ppb	98.53	0.9	57262
Cd 226.502	104.996	ppb	1.1917	1.1	9415.59
Co 228.615	104.455	ppb	0.7800	0.7	1988.12
Cr 267.716	208.958	ppb	2.0265	1.0	16954.0
Cu 324.754	211.033	ppb	4.4643	2.1	14576.5
Fe 271.441	9853.74	ppb	134.380	1.4	26783.0
K 766.491	9684.40	ppb	116.257	1.2	599191
Mg 279.078	9717.17	ppb	101.522	1.0	51110.9
Mn 257.610	1024.33	ppb	8.7422	0.9	347472
Mo 202.032	204.813	ppb	2.2194	1.1	1882.40
Na 330.237	9736.98	ppb	44.6129	0.5	991.645
Ni 231.604	204.120	ppb	3.7817	1.9	1085.96
Pb 220.353	990.928	ppb	10.3853	1.0	3282.01
Sb 206.834	103.820	ppb	5.0635	4.9	211.863
Se 196.026	198.017	ppb	2.1002	1.1	144.483
Sn 189.925	400.106	ppb	4.9369	1.2	618.364
Sr 216.596	202.248	ppb	2.0648	1.0	4810.32
Ti 334.941	199.408	ppb	1.5027	0.8	65922.9
Tl 190.794	84.8526	ppb	1.2910	1.5	106.062
V 292.401	205.381	ppb	1.9427	0.9	7772.46
Zn 206.200	200.492	ppb	1.2057	0.6	601.609

680-115147-a-17-d (Samp)      8/19/2015, 4:50:55 PM      Rack 1, Tube 19  
 Weight: 1      Volume: 1      Dilution: 1

Label	Replicates Concentration			
Ag 328.068	409.064	406.460	412.177	
Al 308.215	-2.9292u	-0.1499u	0.2996	
As 188.980	213.776	212.366	216.913	
B 249.678	387.016	388.458	395.796	
Ba 389.178	347.032	347.781	356.618	
Be 313.042	203.049	203.766	207.315	
Ca 370.602	15.10	9.363	19.26	
Cd 226.502	252.882	253.475	258.068	
Co 228.615	110.030	111.241	116.120	
Cr 267.716	208.132	207.859	212.481	
Cu 324.754	275.919	273.682	279.859	
Fe 271.441	-0.1071	3.0522	-1.4225	
K 766.491	16.4866	16.4780	16.0623	
Mg 279.078	-2.1920u	-0.4634u	-1.9163u	
Mn 257.610	0.3570	0.3701	0.3612	
Mo 202.032	0.2669	0.1433	0.3234	
Na 330.237	75295.2	75606.6	77457.1	

E08192015.wvq. All Data Report 8/20/2015, 3:03:52 PM

Label	Replicates Concentration		
Ni 231.604	158.015	156.842	158.355
Pb 220.353	117.022	114.025	118.032
Sb 206.834	285.299	285.701	291.225
Se 196.026	395.238	400.799	401.860
Sn 189.925	-0.3126u	0.4993	0.2588
Sr 216.596	0.4570	0.7079	0.6043
Ti 334.941	0.0511	0.0905	-0.0279u
Tl 190.794	393.139	393.947	404.759
V 292.401	-0.2342u	-0.1466u	0.2020u
Zn 206.200	406.416	405.973	417.192

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	409.234	ppb	2.8622	0.7	38847.9
Al 308.215	-0.9265	ppb	1.7489	188.8	682.399
As 188.980	214.352	ppb	2.3275	1.1	241.049
B 249.678	390.423	ppb	4.7087	1.2	7649.64
Ba 389.178	350.477	ppb	5.3314	1.5	11368.3
Be 313.042	204.710	ppb	2.2844	1.1	546374
Ca 370.602	14.57	ppb	4.967	34.1	45.26
Cd 226.502	254.808	ppb	2.8387	1.1	22578.4
Co 228.615	112.464	ppb	3.2239	2.9	2151.67
Cr 267.716	209.491	ppb	2.5932	1.2	16987.8
Cu 324.754	276.487	ppb	3.1273	1.1	19017.3
Fe 271.441	0.5075	ppb	2.2998	453.1	176.408
K 766.491	16.3423	ppb	0.2425	1.5	1539.19
Mg 279.078	-1.5239	ppb	0.9287	60.9	101.711
Mn 257.610	0.3628	ppb	0.0067	1.8	159.460
Mo 202.032	0.2446	ppb	0.0921	37.7	29.7433
Na 330.237	76119.6	ppb	1168.67	1.5	6539.82
Ni 231.604	157.738	ppb	0.7939	0.5	836.186
Pb 220.353	116.360	ppb	2.0838	1.8	440.517
Sb 206.834	287.408	ppb	3.3116	1.2	520.494
Se 196.026	399.299	ppb	3.5566	0.9	300.740
Sn 189.925	0.1485	ppb	0.4170	280.8	-29.9909
Sr 216.596	0.5897	ppb	0.1261	21.4	64.3059
Ti 334.941	0.0379	ppb	0.0603	158.9	11.0244
Tl 190.794	397.282	ppb	6.4884	1.6	685.914
V 292.401	-0.0596	ppb	0.2307	387.3	-44.9175
Zn 206.200	409.860	ppb	6.3533	1.6	1229.92

680-115147-a-17-d SD (Samp)    8/19/2015, 4:55:30 PM    Rack 1, Tube 20  
 Weight: 1    Volume: 1    Dilution: 1

Label	Replicates Concentration		
Ag 328.068	88.0751	91.1751	85.9462
Al 308.215	-12.1664u	-11.7497u	-10.5847u
As 188.980	46.9100	43.8891	49.4107
B 249.678	89.3608	89.9229	87.8448
Ba 389.178	78.5231	76.7215	76.4288
Be 313.042	44.8290	44.4973	43.7893
Ca 370.602	7.121	3.791	9.397
Cd 226.502	55.9018	55.6021	54.5948
Co 228.615	24.4569	24.6158	24.2282
Cr 267.716	44.7382	44.7741	44.1055

E08192015.wvq. All Data Report 8/20/2015, 3:03:52 PM

Label	Replicates	Concentration	
Cu 324.754	59.8432	61.6900	57.8238
Fe 271.441	-2.7241u	-7.8488u	-3.2600u
K 766.491	2.2938	2.9524	2.8441
Mg 279.078	-2.9875u	-2.0566u	-0.6325u
Mn 257.610	0.1228	0.0654	0.1260
Mo 202.032	0.3142	0.8839	0.3036
Na 330.237	16229.2	16082.1	15917.0
Ni 231.604	34.4624	34.6875	34.0621
Pb 220.353	23.0288	24.6049	21.6304
Sb 206.834	62.9135	60.3453	59.9098
Se 196.026	82.4703	88.2525	82.2716
Sn 189.925	-0.6307u	-0.0519u	3.2061
Sr 216.596	-0.0427u	0.1515	0.1689
Ti 334.941	-0.0778u	-0.0059u	-0.0733u
Tl 190.794	86.5646	88.7439	85.3534
V 292.401	0.4090	0.1194	0.2419
Zn 206.200	88.7001	87.7233	85.1070

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	88.3988	ppb	2.6295	3.0	8400.57
Al 308.215	-11.5003	ppb	0.8198	7.1	593.321
As 188.980	46.7366	ppb	2.7649	5.9	42.7215
B 249.678	89.0428	ppb	1.0749	1.2	1818.29
Ba 389.178	77.2245	ppb	1.1341	1.5	2339.05
Be 313.042	44.3719	ppb	0.5311	1.2	117872
Ca 370.602	6.770	ppb	2.819	41.6	2.319
Cd 226.502	55.3662	ppb	0.6847	1.2	4977.23
Co 228.615	24.4336	ppb	0.1948	0.8	411.559
Cr 267.716	44.5393	ppb	0.3761	0.8	3645.89
Cu 324.754	59.7857	ppb	1.9338	3.2	4285.93
Fe 271.441	-4.6110	ppb	2.8168	61.1	147.084
K 766.491	2.6968	ppb	0.3532	13.1	695.655
Mg 279.078	-1.8922	ppb	1.1861	62.7	99.7944
Mn 257.610	0.1047	ppb	0.0341	32.5	72.3817
Mo 202.032	0.5006	ppb	0.3320	66.3	32.0626
Na 330.237	16076.1	ppb	156.166	1.0	1525.29
Ni 231.604	34.4040	ppb	0.3168	0.9	174.963
Pb 220.353	23.0880	ppb	1.4882	6.4	137.516
Sb 206.834	61.0562	ppb	1.6231	2.7	142.118
Se 196.026	84.3315	ppb	3.3972	4.0	55.7235
Sn 189.925	0.8412	ppb	2.0684	245.9	-28.9069
Sr 216.596	0.0925	ppb	0.1175	126.9	59.1757
Ti 334.941	-0.0523	ppb	0.0403	77.0	-13.6224
Tl 190.794	86.8873	ppb	1.7181	2.0	109.994
V 292.401	0.2568	ppb	0.1453	56.6	-21.9262
Zn 206.200	87.1768	ppb	1.8578	2.1	262.907

680-115147-a-17-d^10 (Samp)    8/19/2015, 5:00:05 PM    Rack 1, Tube 21  
 Weight: 1    Volume: 1    Dilution: 1

Label	Replicates	Concentration	
Ag 328.068	43.3994	42.5018	41.9869
Al 308.215	-11.4822u	-12.8469u	-13.1865u
As 188.980	20.6152	24.2827	24.4230

Label	Replicates	Concentration				
B 249.678	44.2153	44.0385	43.8809			
Ba 389.178	38.6062	38.1868	36.6817			
Be 313.042	22.0838	22.1693	21.7093			
Ca 370.602	7.377	9.969	7.544			
Cd 226.502	27.4457	27.7453	27.1043			
Co 228.615	12.4992	11.9223	12.6512			
Cr 267.716	21.9326	22.3655	21.8013			
Cu 324.754	30.4296	29.7545	29.1626			
Fe 271.441	13.2877	16.1207	11.4553			
K 766.491	0.4250	0.6432	1.1171			
Mg 279.078	-1.9245u	-0.9542u	1.2007			
Mn 257.610	0.5246	0.5296	0.4938			
Mo 202.032	0.7106	0.3317	0.4159			
Na 330.237	7737.51	8065.92	7705.38			
Ni 231.604	20.3004	20.4488	19.9427			
Pb 220.353	11.9711	12.4227	9.9348			
Sb 206.834	24.0680	23.5736	28.8024			
Se 196.026	43.0526	39.0130	35.7119			
Sn 189.925	-0.9798u	2.9399	-0.4503u			
Sr 216.596	0.1931	0.6466	0.6397			
Ti 334.941	-0.1684u	-0.0939u	-0.0277u			
Tl 190.794	41.7368	39.7816	44.6037			
V 292.401	-0.3362u	-0.0275u	0.3724			
Zn 206.200	43.4328	42.5688	42.7020			

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	42.6294	ppb	0.7148	1.7	4057.04
Al 308.215	-12.5052	ppb	0.9021	7.2	584.853
As 188.980	23.1070	ppb	2.1591	9.3	14.7619
B 249.678	44.0449	ppb	0.1673	0.4	947.690
Ba 389.178	37.8249	ppb	1.0120	2.7	1037.16
Be 313.042	21.9875	ppb	0.2447	1.1	58049.8
Ca 370.602	8.297	ppb	1.451	17.5	10.29
Cd 226.502	27.4318	ppb	0.3207	1.2	2512.08
Co 228.615	12.3576	ppb	0.3845	3.1	172.849
Cr 267.716	22.0331	ppb	0.2952	1.3	1825.54
Cu 324.754	29.7822	ppb	0.6340	2.1	2246.31
Fe 271.441	13.6212	ppb	2.3505	17.3	194.189
K 766.491	0.7284	ppb	0.3539	48.6	573.978
Mg 279.078	-0.5593	ppb	1.5996	286.0	106.781
Mn 257.610	0.5160	ppb	0.0194	3.8	211.976
Mo 202.032	0.4861	ppb	0.1990	40.9	31.9304
Na 330.237	7836.27	ppb	199.530	2.5	837.136
Ni 231.604	20.2306	ppb	0.2601	1.3	98.9858
Pb 220.353	11.4429	ppb	1.3254	11.6	99.6882
Sb 206.834	25.4813	ppb	2.8867	11.3	82.7092
Se 196.026	39.2592	ppb	3.6765	9.4	20.6614
Sn 189.925	0.5033	ppb	2.1268	422.6	-29.4601
Sr 216.596	0.4931	ppb	0.2598	52.7	69.3820
Ti 334.941	-0.0967	ppb	0.0704	72.8	-27.5680
Tl 190.794	42.0407	ppb	2.4254	5.8	26.7834
V 292.401	0.0029	ppb	0.3553	12272.3	-30.1721
Zn 206.200	42.9012	ppb	0.4652	1.1	130.222

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680-115147-a-17-d^50 (Samp) 8/19/2015, 5:04:41 PM

Rack 1, Tube 22

Weight: 1

Volume: 1

Dilution: 1

Label	Replicates	Concentration			
Ag 328.068	9.7131	9.8780	9.7263		
Al 308.215	-14.2959u	-14.2546u	-17.8060u		
As 188.980	4.1210	1.5174	7.0431		
B 249.678	11.1231	11.5061	10.9881		
Ba 389.178	10.0842	9.6212	9.7196		
Be 313.042	4.8933	4.9829	4.7382		
Ca 370.602	5.375	0.5838	-1.697u		
Cd 226.502	6.5205	6.6425	6.4294		
Co 228.615	2.8062	2.8961	3.1425		
Cr 267.716	4.5899	4.8059	4.3220		
Cu 324.754	7.8073	7.6133	7.4861		
Fe 271.441	-5.5402u	-9.5029u	-8.1102u		
K 766.491	-0.6721u	-0.3030u	-0.2086u		
Mg 279.078	-0.2671u	-2.5290u	-2.1754u		
Mn 257.610	0.0477	0.0278	0.0031		
Mo 202.032	0.4291	0.2843	0.3755		
Na 330.237	1625.43	1664.87	1682.97		
Ni 231.604	6.1534	5.6766	5.4844		
Pb 220.353	2.9820	2.4366	2.1827		
Sb 206.834	4.7416	5.8178	2.1837		
Se 196.026	11.7206	9.6889	5.3060		
Sn 189.925	1.2442	0.6146	-1.9794u		
Sr 216.596	-0.0976u	0.1793	-0.2471u		
Ti 334.941	-0.0152u	-0.0482u	-0.0145u		
Tl 190.794	7.3096	6.0678	10.4106		
V 292.401	0.0859	-0.0757u	0.0425		
Zn 206.200	10.1668	10.3213	9.2574		

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	9.7725	ppb	0.0916	0.9	938.919
Al 308.215	-15.4522	ppb	2.0386	13.2	559.865
As 188.980	4.2272	ppb	2.7644	65.4	-7.5769
B 249.678	11.2058	ppb	0.2687	2.4	312.308
Ba 389.178	9.8084	ppb	0.2439	2.5	111.373
Be 313.042	4.8715	ppb	0.1238	2.5	12307.4
Ca 370.602	1.421	ppb	3.609	254.1	-27.12
Cd 226.502	6.5308	ppb	0.1069	1.6	667.404
Co 228.615	2.9483	ppb	0.1741	5.9	-13.1296
Cr 267.716	4.5726	ppb	0.2424	5.3	413.261
Cu 324.754	7.6356	ppb	0.1618	2.1	740.763
Fe 271.441	-7.7178	ppb	2.0103	26.0	134.940
K 766.491	-0.3946	ppb	0.2449	62.1	504.559
Mg 279.078	-1.6572	ppb	1.2167	73.4	101.035
Mn 257.610	0.0262	ppb	0.0224	85.3	45.8550
Mo 202.032	0.3630	ppb	0.0732	20.2	30.8163
Na 330.237	1657.76	ppb	29.4240	1.8	321.147
Ni 231.604	5.7715	ppb	0.3445	6.0	21.4601
Pb 220.353	2.5338	ppb	0.4084	16.1	70.7424
Sb 206.834	4.2477	ppb	1.8667	43.9	47.1860
Se 196.026	8.9052	ppb	3.2783	36.8	-2.9512
Sn 189.925	-0.0402	ppb	1.7087	4253.4	-30.3451
Sr 216.596	-0.0551	ppb	0.2163	392.4	57.2388

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Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ti 334.941	-0.0260	ppb	0.0192	74.1	-3.6739
Tl 190.794	7.9293	ppb	2.2368	28.2	-36.5031
V 292.401	0.0176	ppb	0.0836	475.2	-28.4104
Zn 206.200	9.9152	ppb	0.5748	5.8	31.3733

mb 680-396697/1-b (Samp)      8/19/2015, 5:09:18 PM      Rack 1, Tube 23  
 Weight: 1      Volume: 1      Dilution: 1

Label	Replicates	Concentration				
Ag 328.068	-0.4205u	-0.5199u	-0.0533u			
Al 308.215	-13.0462u	-13.5078u	-12.3837u			
As 188.980	-3.1195u	-3.8104u	-5.4337u			
B 249.678	0.7456	1.4289	1.7261			
Ba 389.178	1.6651	2.5182	1.4141			
Be 313.042	-0.0018u	0.0054	-0.0024u			
Ca 370.602	11.46	11.31	6.619			
Cd 226.502	0.3717	0.4794	0.4904			
Co 228.615	0.1439	0.6176	0.2116			
Cr 267.716	-0.1392u	-0.1402u	-0.1636u			
Cu 324.754	0.8016	0.4563	0.7809			
Fe 271.441	-3.2487u	-5.9015u	-6.2032u			
K 766.491	-0.5383u	0.2138	-0.0985u			
Mg 279.078	-1.9555u	-2.8079u	-1.2647u			
Mn 257.610	0.0665	0.0725	0.0891			
Mo 202.032	0.3966	0.9804	0.6902			
Na 330.237	7.2990	72.9707	193.445			
Ni 231.604	2.3063	1.4631	1.0933			
Pb 220.353	0.1254	-1.2022u	-0.5617u			
Sb 206.834	-5.4338u	-2.8967u	-8.6262u			
Se 196.026	-6.1014u	-0.4347u	-4.3194u			
Sn 189.925	0.4884	0.7512	-1.3011u			
Sr 216.596	0.1324	-0.1002u	0.2785			
Ti 334.941	-0.0040u	-0.0194u	0.0809			
Tl 190.794	2.1172	0.2364	-3.4764u			
V 292.401	0.0633	0.1148	0.1289			
Zn 206.200	0.2961	-0.2813u	-0.8790u			

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.3312	ppb	0.2458	74.2	-19.9209
Al 308.215	-12.9792	ppb	0.5650	4.4	580.951
As 188.980	-4.1212	ppb	1.1880	28.8	-17.4552
B 249.678	1.3002	ppb	0.5027	38.7	120.611
Ba 389.178	1.8658	ppb	0.5788	31.0	-151.071
Be 313.042	0.0004	ppb	0.0043	1105.5	-710.563
Ca 370.602	9.797	ppb	2.753	28.1	19.05
Cd 226.502	0.4472	ppb	0.0656	14.7	130.529
Co 228.615	0.3243	ppb	0.2562	79.0	-65.0159
Cr 267.716	-0.1477	ppb	0.0138	9.3	31.4808
Cu 324.754	0.6796	ppb	0.1937	28.5	267.906
Fe 271.441	-5.1178	ppb	1.6257	31.8	141.467
K 766.491	-0.1410	ppb	0.3779	268.0	520.234
Mg 279.078	-2.0094	ppb	0.7730	38.5	99.1809
Mn 257.610	0.0760	ppb	0.0117	15.4	62.7790
Mo 202.032	0.6891	ppb	0.2919	42.4	33.7709

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Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Na 330.237	91.2382	ppb	94.4077	103.5	190.320
Ni 231.604	1.6209	ppb	0.6217	38.4	-0.7925
Pb 220.353	-0.5462	ppb	0.6639	121.6	60.7369
Sb 206.834	-5.6522	ppb	2.8710	50.8	30.6735
Se 196.026	-3.6185	ppb	2.8977	80.1	-12.6935
Sn 189.925	-0.0205	ppb	1.1168	5447.1	-30.3142
Sr 216.596	0.1036	ppb	0.1910	184.4	61.1908
Ti 334.941	0.0192	ppb	0.0540	281.3	11.3861
Tl 190.794	-0.3743	ppb	2.8464	760.5	-51.9132
V 292.401	0.1023	ppb	0.0345	33.7	-24.9415
Zn 206.200	-0.2880	ppb	0.5876	204.0	0.7929

lcs 680-396697/2-b (Samp)

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Rack 1, Tube 24

Weight: 1

Volume: 1

Dilution: 1

Label	Replicates	Concentration
Ag 328.068	51.7716	50.9237
Al 308.215	4940.28	4906.84
As 188.980	103.494	109.268
B 249.678	195.928	195.321
Ba 389.178	102.069	101.167
Be 313.042	52.0975	51.7231
Ca 370.602	5175	5136
Cd 226.502	53.6495	53.3436
Co 228.615	52.3622	52.5502
Cr 267.716	103.836	103.173
Cu 324.754	106.877	105.016
Fe 271.441	4914.18	4906.57
K 766.491	5168.58	5165.26
Mg 279.078	4873.99	4847.92
Mn 257.610	508.051	505.068
Mo 202.032	101.004	101.143
Na 330.237	5065.64	4768.18
Ni 231.604	101.382	102.382
Pb 220.353	499.623	495.133
Sb 206.834	48.8270	48.0252
Se 196.026	93.1048	97.9039
Sn 189.925	202.064	200.954
Sr 216.596	100.536	99.6350
Ti 334.941	100.011	99.4059
Tl 190.794	41.6113	46.1417
V 292.401	102.006	101.277
Zn 206.200	100.709	100.762

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	51.2202	ppb	0.4780	0.9	4870.71
Al 308.215	4930.24	ppb	20.3278	0.4	42638.6
As 188.980	107.537	ppb	3.5129	3.3	114.540
B 249.678	196.236	ppb	1.1006	0.6	3877.80
Ba 389.178	102.140	ppb	1.0102	1.0	3179.11
Be 313.042	51.9623	ppb	0.2077	0.4	138148
Ca 370.602	5163	ppb	23.20	0.4	28466
Cd 226.502	53.4454	ppb	0.1767	0.3	4836.86
Co 228.615	52.6390	ppb	0.3302	0.6	966.564

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Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Cr 267.716	103.506	ppb	0.3313	0.3	8419.99
Cu 324.754	105.332	ppb	1.4139	1.3	7386.55
Fe 271.441	4916.15	ppb	10.6948	0.2	13440.2
K 766.491	5173.12	ppb	10.8744	0.2	320317
Mg 279.078	4864.96	ppb	14.7655	0.3	25644.0
Mn 257.610	507.150	ppb	1.8088	0.4	172055
Mo 202.032	101.393	ppb	0.5580	0.6	945.786
Na 330.237	4898.68	ppb	152.046	3.1	589.697
Ni 231.604	101.933	ppb	0.5079	0.5	537.558
Pb 220.353	497.687	ppb	2.3080	0.5	1679.48
Sb 206.834	49.5637	ppb	2.0108	4.1	122.075
Se 196.026	98.3692	ppb	5.5118	5.6	66.8030
Sn 189.925	200.333	ppb	2.1115	1.1	294.495
Sr 216.596	100.208	ppb	0.4982	0.5	2413.13
Ti 334.941	99.8438	ppb	0.3826	0.4	33010.2
Tl 190.794	43.4360	ppb	2.3903	5.5	29.2927
V 292.401	101.828	ppb	0.4872	0.5	3839.20
Zn 206.200	100.505	ppb	0.3988	0.4	302.419

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Weight: 1 Volume: 1

Rack 1, Tube 25

Dilution: 1

Label	Replicates	Concentration
Ag 328.068	510.877	502.204
Al 308.215	4932.72	4888.69
As 188.980	493.853	500.732
B 249.678	480.755	481.727
Ba 389.178	4935.74	4891.56
Be 313.042	492.806	489.345
Ca 370.602	5295	5251
Cd 226.502	505.741	501.706
Co 228.615	498.894	493.970
Cr 267.716	5100.06	5060.02
Cu 324.754	5112.94	5014.96
Fe 271.441	4915.97	4887.76
K 766.491	9912.49	9791.56
Mg 279.078	4944.78	4902.46
Mn 257.610	5011.89	4991.54
Mo 202.032	505.686	500.987
Na 330.237	7423.09	6954.72
Ni 231.604	2476.00	2465.37
Pb 220.353	504.253	502.729
Sb 206.834	1005.03	1000.36
Se 196.026	4877.78	4863.97
Sn 189.925	5084.02	4855.84
Sr 216.596	2513.86	2491.96
Ti 334.941	485.772	482.403
Tl 190.794	4998.93	4978.46
V 292.401	4932.03	4894.10
Zn 206.200	2513.53	2493.27

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)	QC Value
Ag 328.068	507.926	ppb	4.9559	1.0	48160.7	101.58511
Al 308.215	4881.46	ppb	55.2339	1.1	42885.4	97.62913

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Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)	QC Value
As 188.980	491.989	ppb	9.8088	2.0	569.176	98.39774
B 249.678	478.916	ppb	4.0559	0.8	9359.89	95.78325
Ba 389.178	4887.13	ppb	50.9724	1.0	161311	97.74258
Be 313.042	488.061	ppb	5.5002	1.1	1303934	97.61218
Ca 370.602	5236	ppb	67.93	1.3	29498	104.72240
Cd 226.502	500.655	ppb	5.6854	1.1	44303.9	100.13095
Co 228.615	492.845	ppb	6.6836	1.4	9669.80	98.56895
Cr 267.716	5055.78	ppb	46.5425	0.9	408973	101.11569
Cu 324.754	5078.15	ppb	54.8153	1.1	345389	101.56303
Fe 271.441	4872.60	ppb	52.6184	1.1	13494.3	97.45197
K 766.491	9793.96	ppb	117.346	1.2	605964	97.93960
Mg 279.078	4891.21	ppb	59.9862	1.2	25604.1	97.82424
Mn 257.610	4969.54	ppb	56.6408	1.1	1684918	99.39090
Mo 202.032	501.149	ppb	4.4579	0.9	4560.98	100.22985
Na 330.237	7083.99	ppb	296.425	4.2	769.057	94.45316
Ni 231.604	2456.59	ppb	24.9825	1.0	13166.8	98.26364
Pb 220.353	500.283	ppb	5.6090	1.1	1691.37	100.05653
Sb 206.834	997.351	ppb	9.5478	1.0	1769.75	99.73508
Se 196.026	4844.86	ppb	45.5860	0.9	3760.87	96.89719
Sn 189.925	4970.12	ppb	114.094	2.3	8027.12	99.40241
Sr 216.596	2488.97	ppb	26.5143	1.1	58258.3	99.55871
Ti 334.941	481.413	ppb	4.9299	1.0	159105	96.28261
Tl 190.794	4964.30	ppb	43.4815	0.9	9171.48	99.28593
V 292.401	4885.98	ppb	50.5881	1.0	186704	97.71970
Zn 206.200	2487.29	ppb	29.6880	1.2	7424.31	99.49160

Cont Calib Blank (CCB) 8/19/2015, 5:23:03 PM

Weight: 1 Volume: 1

Rack 1, Tube 26

Dilution: 1

Label	Replicates	Concentration
Ag 328.068	0.1211	0.1921
Al 308.215	-15.7247u	-16.1516u
As 188.980	-5.1016u	-3.3396u
B 249.678	4.7532	3.4193
Ba 389.178	2.5642	1.9335
Be 313.042	0.0059	-0.0024u
Ca 370.602	1.643	0.9473
Cd 226.502	0.3776	0.4207
Co 228.615	0.7177	0.9912
Cr 267.716	-0.3228u	-0.1044u
Cu 324.754	1.2099	-0.0074u
Fe 271.441	-6.9841u	-7.2537u
K 766.491	-1.3467u	0.0562
Mg 279.078	-2.3813u	-4.9778u
Mn 257.610	-0.0251u	0.0097
Mo 202.032	0.4684	-0.3557u
Na 330.237	8.2776	20.0863
Ni 231.604	1.7648	2.2176
Pb 220.353	-0.9337u	-0.8516u
Sb 206.834	-9.5996u	-2.6611u
Se 196.026	-6.4091u	1.9676
Sn 189.925	-0.3901u	-0.0121u
Sr 216.596	0.0959	0.3088
Ti 334.941	0.0595	0.0151
		0.0189

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Label	Replicates Concentration	
Tl 190.794	0.4612	0.4382 -1.1861u
V 292.401	0.0123	0.0314 0.1024
Zn 206.200	0.5182	-0.5403u 1.2799

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)	QC Value
Ag 328.068	0.3129	ppb	0.2730	87.3	41.2109	0.31290
Al 308.215	-16.2514	ppb	0.5830	3.6	553.105	-16.25137
As 188.980	-2.5037	ppb	3.1016	123.9	-15.5412	-2.50366
B 249.678	3.9737	ppb	0.6949	17.5	172.357	3.97369
Ba 389.178	2.0047	ppb	0.5275	26.3	-146.493	2.00467
Be 313.042	0.0013	ppb	0.0042	320.6	-708.057	0.00132
Ca 370.602	2.411	ppb	1.964	81.5	-21.55	2.41107
Cd 226.502	0.4283	ppb	0.0549	12.8	128.831	0.42833
Co 228.615	0.6705	ppb	0.3467	51.7	-58.1671	0.67050
Cr 267.716	-0.2152	ppb	0.1092	50.8	26.0129	-0.21521
Cu 324.754	0.5204	ppb	0.6246	120.0	257.082	0.52043
Fe 271.441	-7.0207	ppb	0.2170	3.1	136.402	-7.02072
K 766.491	-0.6855	ppb	0.7049	102.8	486.571	-0.68554
Mg 279.078	-4.2477	ppb	1.6291	38.4	87.4275	-4.24772
Mn 257.610	-0.0010	ppb	0.0209	2101.6	36.6185	-0.00100
Mo 202.032	0.5006	ppb	0.8728	174.4	32.0632	0.50056
Na 330.237	20.8110	ppb	12.9111	62.0	184.439	20.81102
Ni 231.604	1.8931	ppb	0.2830	15.0	0.6653	1.89311
Pb 220.353	-1.3768	ppb	0.8396	61.0	58.0382	-1.37679
Sb 206.834	-5.9721	ppb	3.4801	58.3	30.1439	-5.97207
Se 196.026	-1.6742	ppb	4.2940	256.5	-11.1810	-1.67418
Sn 189.925	-0.3025	ppb	0.2580	85.3	-30.7714	-0.30250
Sr 216.596	0.1679	ppb	0.1220	72.6	62.6928	0.16791
Ti 334.941	0.0312	ppb	0.0246	78.9	15.3438	0.03117
Tl 190.794	-0.0956	ppb	0.9445	988.3	-51.3934	-0.09557
V 292.401	0.0487	ppb	0.0475	97.5	-26.9510	0.04872
Zn 206.200	0.4193	ppb	0.9141	218.0	2.9165	0.41929

680-115541-a-5-d (Samp)      8/19/2015, 5:27:37 PM      Rack 1, Tube 27  
 Weight: 1      Volume: 1      Dilution: 1

Label	Replicates Concentration	
Ag 328.068	-0.3952u	0.3090 -0.0473u
Al 308.215	-8.8656u	-10.3711u -12.5100u
As 188.980	2.3124	0.0921 6.3977
B 249.678	232.266	233.616 231.626
Ba 389.178	117.747	118.397 116.740
Be 313.042	-0.0133	-0.0223u -0.0186u
Ca 370.602	89281	89595 89529
Cd 226.502	0.5182	0.5428 0.4666
Co 228.615	-0.1162u	0.3521 0.8109
Cr 267.716	-0.0715u	0.0785 0.0767
Cu 324.754	1.5797	1.9445 1.6253
Fe 271.441	9.6630	8.0224 0.2698
K 766.491	5569.97	5642.50 5595.28
Mg 279.078	15665.6	15882.4 15776.4
Mn 257.610	0.6028	0.6367 0.5198
Mo 202.032	2.1945	2.0571 1.6615
Na 330.237	13356.3	13320.8 13138.0

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Label	Replicates	Concentration			
Ni 231.604	4.4483	4.5673	3.6033		
Pb 220.353	1.4880	-1.0906u	2.5940		
Sb 206.834	0.1815	-3.7674u	-4.2118u		
Se 196.026	-0.9591u	-3.8675u	5.6277		
Sn 189.925	0.0884	0.6018	-0.3937u		
Sr 216.596	433.900	437.103	434.758		
Ti 334.941	0.1376	0.1129	0.2302		
Tl 190.794	-0.1544u	2.6996	0.0634		
V 292.401	-0.1333u	0.6524	0.3119		
Zn 206.200	1.1595	0.5732	0.9400		

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.0445	ppb	0.3521	791.3	-9.7835
Al 308.215	-10.5822	ppb	1.8314	17.3	601.437
As 188.980	2.9341	ppb	3.1985	109.0	-9.1081
B 249.678	232.503	ppb	1.0159	0.4	4591.39
Ba 389.178	117.628	ppb	0.8345	0.7	3712.34
Be 313.042	-0.0181	ppb	0.0045	25.0	-721.334
Ca 370.602	89468	ppb	165.6	0.2	494028
Cd 226.502	0.5092	ppb	0.0389	7.6	136.326
Co 228.615	0.3490	ppb	0.4636	132.8	-64.5869
Cr 267.716	0.0279	ppb	0.0861	308.3	46.0594
Cu 324.754	1.7165	ppb	0.1987	11.6	338.446
Fe 271.441	5.9851	ppb	5.0171	83.8	171.458
K 766.491	5602.58	ppb	36.8104	0.7	346865
Mg 279.078	15774.8	ppb	108.394	0.7	82982.4
Mn 257.610	0.5864	ppb	0.0602	10.3	427.851
Mo 202.032	1.9710	ppb	0.2768	14.0	45.3861
Na 330.237	13271.7	ppb	117.151	0.9	1291.18
Ni 231.604	4.2063	ppb	0.5256	12.5	13.0764
Pb 220.353	0.9972	ppb	1.8907	189.6	65.7458
Sb 206.834	-2.5992	ppb	2.4184	93.0	35.7141
Se 196.026	0.2670	ppb	4.8649	1821.9	-9.6706
Sn 189.925	0.0988	ppb	0.4978	503.6	-30.1122
Sr 216.596	435.254	ppb	1.6583	0.4	10257.9
Ti 334.941	0.1602	ppb	0.0618	38.6	88.6850
Tl 190.794	0.8695	ppb	1.5886	182.7	-49.6088
V 292.401	0.2770	ppb	0.3940	142.2	-18.4924
Zn 206.200	0.8909	ppb	0.2962	33.3	4.3295

680-115541-a-5-dSD (Samp)      8/19/2015, 5:32:11 PM      Rack 1, Tube 28  
 Weight: 1      Volume: 1      Dilution: 1

Label	Replicates	Concentration			
Ag 328.068	0.0492	-0.0730u	0.2385		
Al 308.215	-14.3907u	-15.4934u	-14.1697u		
As 188.980	-1.9166u	-2.4012u	-2.8448u		
B 249.678	48.9713	51.5904	52.4769		
Ba 389.178	24.0618	24.0103	24.8871		
Be 313.042	-0.0057u	-0.0010	-0.0077u		
Ca 370.602	18281	18911	19366		
Cd 226.502	0.4044	0.3283	0.5058		
Co 228.615	0.4886	0.0363	0.3832		
Cr 267.716	-0.3827u	-0.3154u	-0.4005u		

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Label	Replicates	Concentration	
Cu 324.754	0.0916	0.8673	1.4653
Fe 271.441	-8.4030u	-5.1505u	-0.6191u
K 766.491	1070.04	1105.09	1131.28
Mg 279.078	3201.43	3311.37	3399.67
Mn 257.610	0.0940	0.0891	0.1218
Mo 202.032	0.1757	0.9461	0.5731
Na 330.237	2527.27	2562.82	2713.95
Ni 231.604	0.2012	1.1815	2.5993
Pb 220.353	-0.5487u	1.3323	-0.5147u
Sb 206.834	-9.9067u	-0.8786u	3.9913
Se 196.026	-4.7681u	-4.9546u	2.9108
Sn 189.925	-0.2942u	0.5730	-0.3790u
Sr 216.596	89.2279	92.7371	94.7927
Ti 334.941	0.0477	-0.0148	-0.0065
Tl 190.794	1.7802	-5.5546u	-0.5614u
V 292.401	0.6774	0.4553	0.4178
Zn 206.200	0.4884	0.5464	-0.7139u

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	0.0716	ppb	0.1569	219.2	14.7006
Al 308.215	-14.6846	ppb	0.7091	4.8	566.494
As 188.980	-2.3875	ppb	0.4643	19.4	-15.4038
B 249.678	51.0129	ppb	1.8227	3.6	1082.00
Ba 389.178	24.3198	ppb	0.4920	2.0	598.875
Be 313.042	-0.0048	ppb	0.0035	72.0	-716.170
Ca 370.602	18853	ppb	544.8	2.9	104073
Cd 226.502	0.4128	ppb	0.0891	21.6	127.549
Co 228.615	0.3027	ppb	0.2367	78.2	-65.4309
Cr 267.716	-0.3662	ppb	0.0449	12.3	13.8664
Cu 324.754	0.8081	ppb	0.6888	85.2	276.628
Fe 271.441	-4.7242	ppb	3.9094	82.8	142.534
K 766.491	1102.14	ppb	30.7240	2.8	68659.9
Mg 279.078	3304.16	ppb	99.3167	3.0	17468.1
Mn 257.610	0.1016	ppb	0.0176	17.3	111.605
Mo 202.032	0.5650	ppb	0.3853	68.2	32.6460
Na 330.237	2601.35	ppb	99.1245	3.8	399.969
Ni 231.604	1.3273	ppb	1.2057	90.8	-2.3674
Pb 220.353	0.0896	ppb	1.0763	1200.9	62.8019
Sb 206.834	-2.2647	ppb	7.0519	311.4	36.2921
Se 196.026	-2.2707	ppb	4.4882	197.7	-11.6450
Sn 189.925	-0.0334	ppb	0.5269	1576.9	-30.3335
Sr 216.596	92.2526	ppb	2.8139	3.1	2220.52
Ti 334.941	0.0088	ppb	0.0339	386.4	14.3807
Tl 190.794	-1.4453	ppb	3.7464	259.2	-53.8969
V 292.401	0.5168	ppb	0.1403	27.2	-8.9697
Zn 206.200	0.1070	ppb	0.7115	665.1	1.9801

680-115541-a-5-dPDS (Samp)    8/19/2015, 5:36:45 PM    Rack 1, Tube 29  
 Weight: 1    Volume: 1    Dilution: 1

Label	Replicates	Concentration	
Ag 328.068	66.3226	68.8526	65.1153
Al 308.215	1065.99	1035.17	977.530
As 188.980	107.929	102.890	97.4884

<b>Label</b>	<b>Replicates</b>	<b>Concentration</b>			
B 249.678	435.089	431.052	420.101		
Ba 389.178	219.805	216.886	211.543		
Be 313.042	108.287	104.925	98.9515		
Ca 370.602	99831	99314	98879		
Cd 226.502	106.861	103.840	97.9357		
Co 228.615	107.457	106.127	99.7628		
Cr 267.716	111.545	107.866	101.828		
Cu 324.754	107.880	113.068	106.431		
Fe 271.441	10633.6	10329.1	9728.89		
K 766.491	16413.0	16145.0	15571.5		
Mg 279.078	25981.2	25778.4	25265.1		
Mn 257.610	1109.57	1078.55	1018.24		
Mo 202.032	110.634	106.091	101.903		
Na 330.237	23568.7	23234.1	22417.4		
Ni 231.604	110.636	106.861	100.524		
Pb 220.353	106.940	103.275	96.9479		
Sb 206.834	97.5569	90.9053	86.6885		
Se 196.026	98.0567	100.986	96.3798		
Sn 189.925	107.915	104.758	99.9076		
Sr 216.596	536.149	534.258	531.520		
Ti 334.941	107.655	104.110	98.2047		
Tl 190.794	20.2927	19.5715	18.0454		
V 292.401	110.180	107.170	100.893		
Zn 206.200	108.435	102.690	97.9405		

<b>Label</b>	<b>Sol'n Conc.</b>	<b>Units</b>	<b>SD</b>	<b>%RSD</b>	<b>Int. (c/s)</b>
Ag 328.068	66.7635	ppb	1.9073	2.9	6330.93
Al 308.215	1026.23	ppb	44.9048	4.4	9439.19
As 188.980	102.769	ppb	5.2213	5.1	108.834
B 249.678	428.747	ppb	7.7557	1.8	8360.21
Ba 389.178	216.078	ppb	4.1900	1.9	6998.69
Be 313.042	104.054	ppb	4.7281	4.5	277404
Ca 370.602	99341	ppb	476.4	0.5	548443
Cd 226.502	102.879	ppb	4.5398	4.4	9231.74
Co 228.615	104.449	ppb	4.1123	3.9	1990.11
Cr 267.716	107.080	ppb	4.9060	4.6	8714.86
Cu 324.754	109.126	ppb	3.4897	3.2	7646.70
Fe 271.441	10230.5	ppb	460.343	4.5	27798.2
K 766.491	16043.2	ppb	429.882	2.7	992273
Mg 279.078	25674.9	ppb	369.112	1.4	134949
Mn 257.610	1068.79	ppb	46.4400	4.3	362741
Mo 202.032	106.209	ppb	4.3670	4.1	989.085
Na 330.237	23073.4	ppb	592.228	2.6	2105.51
Ni 231.604	106.007	ppb	5.1095	4.8	559.688
Pb 220.353	102.388	ppb	5.0548	4.9	396.771
Sb 206.834	91.7169	ppb	5.4794	6.0	191.894
Se 196.026	98.4741	ppb	2.3312	2.4	67.0625
Sn 189.925	104.193	ppb	4.0332	3.9	138.649
Sr 216.596	533.976	ppb	2.3274	0.4	12591.0
Ti 334.941	103.323	ppb	4.7742	4.6	34200.9
Tl 190.794	19.3032	ppb	1.1474	5.9	-15.5443
V 292.401	106.081	ppb	4.7384	4.5	4000.83
Zn 206.200	103.022	ppb	5.2550	5.1	309.940

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680-115541-a-5-e ms (Samp)	8/19/2015, 5:41:20 PM	Rack 1, Tube 30			
Weight: 1	Volume: 1	Dilution: 1			
Label	Replicates	Concentration			
Ag 328.068	50.2121	51.4894			
Al 308.215	4890.59	4937.43			
As 188.980	105.660	104.550			
B 249.678	424.957	431.071			
Ba 389.178	219.608	220.702			
Be 313.042	51.8264	52.2755			
Ca 370.602	96296	96351			
Cd 226.502	52.2385	52.8305			
Co 228.615	52.1405	52.5419			
Cr 267.716	102.937	103.391			
Cu 324.754	103.598	107.679			
Fe 271.441	4874.90	4903.07			
K 766.491	10565.2	10681.7			
Mg 279.078	20692.3	20936.2			
Mn 257.610	506.945	511.041			
Mo 202.032	101.777	101.800			
Na 330.237	18400.0	18317.5			
Ni 231.604	102.912	102.733			
Pb 220.353	484.831	489.147			
Sb 206.834	52.0542	43.8338			
Se 196.026	104.266	100.485			
Sn 189.925	199.373	198.313			
Sr 216.596	540.798	542.096			
Ti 334.941	98.3883	98.9299			
Tl 190.794	30.6261	31.6726			
V 292.401	101.237	101.390			
Zn 206.200	102.492	100.751			
Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	50.5394	ppb	0.8359	1.7	4788.90
Al 308.215	4925.04	ppb	30.2226	0.6	42594.4
As 188.980	105.492	ppb	0.8699	0.8	112.120
B 249.678	429.576	ppb	4.0820	1.0	8389.88
Ba 389.178	220.209	ppb	0.5545	0.3	7119.14
Be 313.042	52.1781	ppb	0.3145	0.6	138764
Ca 370.602	96433	ppb	191.8	0.2	532481
Cd 226.502	52.6427	ppb	0.3503	0.7	4766.24
Co 228.615	52.3599	ppb	0.2033	0.4	960.997
Cr 267.716	103.321	ppb	0.3551	0.3	8405.48
Cu 324.754	105.391	ppb	2.0850	2.0	7390.53
Fe 271.441	4901.58	ppb	25.9709	0.5	13400.9
K 766.491	10636.1	ppb	62.2604	0.6	658025
Mg 279.078	20844.3	ppb	132.563	0.6	109591
Mn 257.610	509.630	ppb	2.3263	0.5	173090
Mo 202.032	102.126	ppb	0.5841	0.6	952.424
Na 330.237	18479.6	ppb	213.278	1.2	1724.01
Ni 231.604	103.055	ppb	0.4133	0.4	543.576
Pb 220.353	486.903	ppb	2.1633	0.4	1644.45
Sb 206.834	48.9477	ppb	4.4628	9.1	121.035
Se 196.026	101.538	ppb	2.3821	2.3	69.2697
Sn 189.925	199.492	ppb	1.2431	0.6	293.141
Sr 216.596	542.199	ppb	1.4565	0.3	12770.1

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Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ti 334.941	98.8310	ppb	0.4024	0.4	32706.5
Tl 190.794	33.7867	ppb	4.5979	13.6	11.4040
V 292.401	101.703	ppb	0.6785	0.7	3834.35
Zn 206.200	101.279	ppb	1.0540	1.0	304.742

680-115541-a-5-f msd (Samp) 8/19/2015, 5:45:54 PM

## Rack 1, Tube 31

**Weight:** 1

Volume: 1

Dilution: 1

Label	Replicates	Concentration
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Ag	328.068	51.9589	49.7456
Al	308.215	4924.32	4918.99
As	188.980	99.7979	102.281
B	249.678	421.176	421.652
Ba	389.178	215.825	215.414
Be	313.042	52.2151	52.1597
Ca	370.602	93668	93605
Cd	226.502	52.5692	52.3374
Co	228.615	51.6617	52.8926
Cr	267.716	103.061	102.813
Cu	324.754	107.567	101.826
Fe	271.441	4892.40	4875.59
K	766.491	10411.1	10472.0
Mg	279.078	20356.8	20340.3
Mn	257.610	507.213	506.958
Mo	202.032	101.756	101.958
Na	330.237	18073.6	18235.8
Ni	231.604	102.021	101.435
Pb	220.353	487.632	485.278
Sb	206.834	47.1853	53.5953
Se	196.026	97.1074	98.4880
Sn	189.925	202.730	200.002
Sr	216.596	529.203	528.428
Ti	334.941	99.3286	99.3078
Tl	190.794	39.7495	40.0074
V	292.401	101.837	101.972
Zn	206.200	99.0905	100.508

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	50.7750	ppb	1.1147	2.2	4811.72
Al 308.215	4920.88	ppb	2.9874	0.1	42559.0
As 188.980	102.898	ppb	3.4500	3.4	109.051
B 249.678	422.302	ppb	1.5572	0.4	8249.26
Ba 389.178	215.653	ppb	0.2135	0.1	6967.38
Be 313.042	52.1711	ppb	0.0395	0.1	138744
Ca 370.602	93514	ppb	214.1	0.2	516364
Cd 226.502	52.5480	ppb	0.2009	0.4	4757.78
Co 228.615	52.3298	ppb	0.6221	1.2	960.422
Cr 267.716	102.861	ppb	0.1811	0.2	8368.20
Cu 324.754	104.359	ppb	2.9297	2.8	7320.38
Fe 271.441	4883.60	ppb	8.4313	0.2	13352.3
K 766.491	10458.8	ppb	42.6588	0.4	647064
Mg 279.078	20341.9	ppb	14.1539	0.1	106952
Mn 257.610	506.884	ppb	0.3710	0.1	172153
Mo 202.032	101.714	ppb	0.2669	0.3	948.694

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Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Na 330.237	18181.8	ppb	93.7762	0.5	1699.15
Ni 231.604	101.753	ppb	0.2958	0.3	536.587
Pb 220.353	487.877	ppb	2.7287	0.6	1647.61
Sb 206.834	50.4967	ppb	3.2103	6.4	123.605
Se 196.026	95.4432	ppb	4.1362	4.3	64.5272
Sn 189.925	199.342	ppb	3.7620	1.9	292.897
Sr 216.596	528.820	ppb	0.3874	0.1	12456.7
Ti 334.941	99.2570	ppb	0.1066	0.1	32846.3
Tl 190.794	41.3069	ppb	2.4776	6.0	25.3473
V 292.401	101.808	ppb	0.1797	0.2	3838.48
Zn 206.200	99.9149	ppb	0.7365	0.7	300.651

400-109642-a-1-a^10 (Samp)

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Rack 1, Tube 32

Weight: 1

Volume: 1

Dilution: 1

Label	Replicates	Concentration			
Ag 328.068	0.2207	-0.0474u	-0.7414u		
Al 308.215	-16.4561u	-14.2390u	-12.1681u		
As 188.980	5.0466	-4.4610u	-0.5013u		
B 249.678	39.1411	38.3865	38.2753		
Ba 389.178	15.9636	16.4050	16.9087		
Be 313.042	0.0082	-0.0000u	-0.0041u		
Ca 370.602	725.5	733.9	737.2		
Cd 226.502	0.5347	0.3607	0.5330		
Co 228.615	0.1874	1.0049	-0.5385u		
Cr 267.716	-0.4835u	-0.0968u	-0.2561u		
Cu 324.754	1.3628	1.1603	2.7161		
Fe 271.441	1.8134	-9.4879u	-0.6176u		
K 766.491	605.398	606.115	616.474		
Mg 279.078	578.175	584.768	594.521		
Mn 257.610	0.0317	0.0340	0.0403		
Mo 202.032	0.2133	0.8528	1.0032		
Na 330.237	13451.1	13464.8	13772.3		
Ni 231.604	1.5710	1.2173	1.4744		
Pb 220.353	1.3269	-1.8679u	1.3338		
Sb 206.834	-3.4358u	-6.3745u	-0.9999u		
Se 196.026	5.3132	-5.2153u	-8.7592u		
Sn 189.925	0.9571	0.4418	-1.0825u		
Sr 216.596	142.383	143.626	145.748		
Ti 334.941	-0.0309u	-0.1197u	0.0378		
Tl 190.794	-0.4157u	-0.5277u	-3.5517u		
V 292.401	0.2134	0.0000u	0.6484		
Zn 206.200	3.3466	5.4448	5.4596		

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.1894	ppb	0.4965	262.2	-11.8844
Al 308.215	-14.2877	ppb	2.1444	15.0	569.846
As 188.980	0.0281	ppb	4.7758	16990.8	-12.5456
B 249.678	38.6010	ppb	0.4711	1.2	841.885
Ba 389.178	16.4258	ppb	0.4729	2.9	331.462
Be 313.042	0.0014	ppb	0.0063	456.9	-709.740
Ca 370.602	732.2	ppb	6.015	0.8	4008
Cd 226.502	0.4761	ppb	0.1000	21.0	132.942
Co 228.615	0.2179	ppb	0.7722	354.4	67.1163

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Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Cr 267.716	-0.2788	ppb	0.1943	69.7	21.2466
Cu 324.754	1.7464	ppb	0.8458	48.4	340.425
Fe 271.441	-2.7641	ppb	5.9486	215.2	147.822
K 766.491	609.329	ppb	6.1982	1.0	38195.9
Mg 279.078	585.822	ppb	8.2237	1.4	3187.35
Mn 257.610	0.0354	ppb	0.0044	12.5	55.9780
Mo 202.032	0.6898	ppb	0.4194	60.8	33.7770
Na 330.237	13562.7	ppb	181.617	1.3	1315.48
Ni 231.604	1.4209	ppb	0.1828	12.9	-1.8653
Pb 220.353	0.2643	ppb	1.8465	698.7	63.3694
Sb 206.834	-3.6034	ppb	2.6912	74.7	34.0704
Se 196.026	-2.8871	ppb	7.3194	253.5	-12.1246
Sn 189.925	0.1055	ppb	1.0606	1005.6	-30.1012
Sr 216.596	143.919	ppb	1.7014	1.2	3431.18
Ti 334.941	-0.0376	ppb	0.0790	210.0	-7.3706
Tl 190.794	-1.4984	ppb	1.7791	118.7	-53.9970
V 292.401	0.2873	ppb	0.3305	115.0	-17.9654
Zn 206.200	4.7504	ppb	1.2157	25.6	15.9143

680-115595-a-3-a^10 (Samp)      8/19/2015, 5:55:05 PM      Rack 1, Tube 33  
 Weight: 1      Volume: 1      Dilution: 1

Label	Replicates	Concentration
Ag 328.068	-0.0357u	-0.4585u
Al 308.215	-12.1657u	-13.5554u
As 188.980	0.2627	-5.6519u
B 249.678	2.9444	3.3575
Ba 389.178	1.7329	1.8554
Be 313.042	-0.0028u	-0.0070u
Ca 370.602	8420	8419
Cd 226.502	0.4158	0.4091
Co 228.615	0.2271	-0.3055u
Cr 267.716	-0.3711u	-0.0820u
Cu 324.754	2.9450	3.0495
Fe 271.441	-1.5280u	-4.3132u
K 766.491	3493.74	3483.13
Mg 279.078	805.017	803.370
Mn 257.610	0.0434	0.0272
Mo 202.032	0.3443	0.6764
Na 330.237	36216.4	36136.2
Ni 231.604	1.8021	1.4198
Pb 220.353	-0.6515u	-1.1945u
Sb 206.834	-1.5310u	-1.4394u
Se 196.026	4.3773	-3.1111u
Sn 189.925	0.2268	-2.2286u
Sr 216.596	12.7742	12.5245
Ti 334.941	0.0285	-0.0634u
Tl 190.794	-0.2988u	-0.4834u
V 292.401	0.3079	0.3160
Zn 206.200	-0.5963u	0.7409

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.2407	ppb	0.2117	87.9	-11.8458
Al 308.215	-13.1918	ppb	0.9011	6.8	579.157

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Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
As 188.980	-2.8414	ppb	2.9682	104.5	-15.9408
B 249.678	3.3695	ppb	0.4311	12.8	160.667
Ba 389.178	1.9667	ppb	0.3050	15.5	-145.804
Be 313.042	-0.0030	ppb	0.0039	128.8	-721.485
Ca 370.602	8356	ppb	110.8	1.3	46107
Cd 226.502	0.4354	ppb	0.0399	9.2	129.088
Co 228.615	0.0437	ppb	0.3025	691.9	-70.5380
Cr 267.716	-0.2478	ppb	0.1492	60.2	24.3869
Cu 324.754	2.9342	ppb	0.1210	4.1	421.167
Fe 271.441	-2.4510	ppb	1.6127	65.8	148.639
K 766.491	3463.95	ppb	42.7526	1.2	214660
Mg 279.078	798.657	ppb	9.6254	1.2	4305.48
Mn 257.610	0.0410	ppb	0.0128	31.2	60.4541
Mo 202.032	0.5065	ppb	0.1662	32.8	32.1161
Na 330.237	35888.7	ppb	499.843	1.4	3180.19
Ni 231.604	1.8062	ppb	0.3885	21.5	0.2026
Pb 220.353	-0.3943	ppb	0.9552	242.3	61.2318
Sb 206.834	-0.6537	ppb	1.4410	220.4	38.9673
Se 196.026	-2.5050	ppb	6.6001	263.5	-11.8273
Sn 189.925	-0.8490	ppb	1.2556	147.9	-31.6340
Sr 216.596	12.5093	ppb	0.2728	2.2	351.897
Ti 334.941	-0.0055	ppb	0.0504	918.2	1.7509
Tl 190.794	-0.6520	ppb	0.4613	70.7	-52.4283
V 292.401	0.3181	ppb	0.0115	3.6	-16.9432
Zn 206.200	0.1071	ppb	0.6713	626.9	1.9798

mb 680-396958/1-a (Samp)      8/19/2015, 5:59:41 PM      Rack 1, Tube 34  
 Weight: 1      Volume: 1      Dilution: 1

Label	Replicates	Concentration	
Ag 328.068	-0.3768u	0.0061	-0.0030u
Al 308.215	-9.8637u	-9.8902u	-7.1815u
As 188.980	-0.8435u	1.5900	-5.2537u
B 249.678	2.1343	1.4919	1.8849
Ba 389.178	1.4837	1.3453	0.9069
Be 313.042	-0.0128u	-0.0012u	0.0082
Ca 370.602	25.02	20.07	21.00
Cd 226.502	0.5025	0.4250	0.5098
Co 228.615	0.2527	0.6188	0.6624
Cr 267.716	0.1621	0.2397	0.3402
Cu 324.754	0.7463	0.8212	1.1223
Fe 271.441	9.0279	17.2728	15.4396
K 766.491	8.3618	8.5492	8.0719
Mg 279.078	0.8062	0.8510	0.9524
Mn 257.610	0.3571	0.4381	0.4057
Mo 202.032	1.1314	0.4887	0.0771
Na 330.237	39.3664	132.058	77.1256
Ni 231.604	2.7708	1.1355	1.4979
Pb 220.353	-2.3611u	-0.7010u	-1.6368u
Sb 206.834	0.0671	-0.3599u	-2.5330u
Se 196.026	-3.2927u	-3.7566u	-3.1533u
Sn 189.925	10.0659	11.2562	10.3333
Sr 216.596	0.2558	0.6035	0.2082
Ti 334.941	0.1371	0.2057	0.1156

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Label	Replicates Concentration			
Tl 190.794	-0.9780u	0.0141	-0.2617u	
V 292.401	0.0483	-0.0756u	0.2859	
Zn 206.200	2.4244	2.5304	3.0320	

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.1246	ppb	0.2185	175.4	-0.3290
Al 308.215	-8.9785	ppb	1.5562	17.3	614.965
As 188.980	-1.5024	ppb	3.4691	230.9	-14.3567
B 249.678	1.8370	ppb	0.3238	17.6	130.952
Ba 389.178	1.2453	ppb	0.3011	24.2	-171.557
Be 313.042	-0.0020	ppb	0.0105	538.0	-716.791
Ca 370.602	22.03	ppb	2.630	11.9	86.41
Cd 226.502	0.4791	ppb	0.0470	9.8	133.453
Co 228.615	0.5113	ppb	0.2250	44.0	-61.3170
Cr 267.716	0.2474	ppb	0.0893	36.1	63.4435
Cu 324.754	0.8966	ppb	0.1990	22.2	282.662
Fe 271.441	13.9134	ppb	4.3291	31.1	192.898
K 766.491	8.3276	ppb	0.2405	2.9	1043.74
Mg 279.078	0.8699	ppb	0.0749	8.6	114.292
Mn 257.610	0.4003	ppb	0.0408	10.2	172.824
Mo 202.032	0.5657	ppb	0.5314	93.9	32.6520
Na 330.237	82.8499	ppb	46.6102	56.3	189.608
Ni 231.604	1.8014	ppb	0.8588	47.7	0.1764
Pb 220.353	-1.5663	ppb	0.8323	53.1	57.4270
Sb 206.834	-0.9420	ppb	1.3943	148.0	38.4979
Se 196.026	-3.4009	ppb	0.3158	9.3	-12.5243
Sn 189.925	10.5518	ppb	0.6245	5.9	-13.1748
Sr 216.596	0.3558	ppb	0.2158	60.6	67.1444
Ti 334.941	0.1528	ppb	0.0470	30.8	55.5505
Tl 190.794	-0.4085	ppb	0.5121	125.3	-51.9776
V 292.401	0.0862	ppb	0.1837	213.1	-25.5423
Zn 206.200	2.6623	ppb	0.3245	12.2	9.6437

Ics 680-396958/2-a (Samp)      8/19/2015, 6:04:17 PM      Rack 1, Tube 35  
 Weight: 1      Volume: 1      Dilution: 1

Label	Replicates Concentration			
Ag 328.068	47.3229	46.5457	46.5485	
Al 308.215	4573.15	4595.61	4617.22	
As 188.980	92.6233	99.2260	96.9904	
B 249.678	177.510	178.889	180.376	
Ba 389.178	94.6586	96.5963	97.1579	
Be 313.042	48.6462	48.8054	49.1884	
Ca 370.602	4838	4851	4891	
Cd 226.502	49.4818	49.5473	50.1125	
Co 228.615	49.6850	49.6530	50.1442	
Cr 267.716	97.1826	97.1230	97.8149	
Cu 324.754	98.5207	96.4776	96.9513	
Fe 271.441	4613.63	4639.97	4664.41	
K 766.491	4667.85	4714.87	4719.90	
Mg 279.078	4517.06	4535.99	4550.29	
Mn 257.610	475.294	477.288	480.177	
Mo 202.032	94.7473	95.1696	96.1636	
Na 330.237	4599.18	4554.80	4491.63	

E08192015.wvq. All Data Report 8/20/2015, 3:03:52 PM

Label	Replicates	Concentration			
Ni 231.604	96.4127	96.7014	96.1289		
Pb 220.353	460.886	465.166	471.117		
Sb 206.834	40.9912	38.2807	43.4818		
Se 196.026	92.6333	93.5328	91.7150		
Sn 189.925	198.035	197.498	197.054		
Sr 216.596	93.8580	93.6046	94.6743		
Ti 334.941	93.3189	93.6329	94.3023		
Tl 190.794	39.0159	37.9358	38.7857		
V 292.401	94.5418	94.8222	96.1600		
Zn 206.200	95.7031	97.9256	95.8707		

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	46.8057	ppb	0.4479	1.0	4451.87
Al 308.215	4595.32	ppb	22.0373	0.5	39789.2
As 188.980	96.2799	ppb	3.3582	3.5	101.227
B 249.678	178.925	ppb	1.4336	0.8	3543.64
Ba 389.178	96.1376	ppb	1.3113	1.4	2979.71
Be 313.042	48.8800	ppb	0.2787	0.6	129911
Ca 370.602	4860	ppb	27.73	0.6	26795
Cd 226.502	49.7139	ppb	0.3468	0.7	4505.91
Co 228.615	49.8274	ppb	0.2748	0.6	911.115
Cr 267.716	97.3735	ppb	0.3834	0.4	7923.73
Cu 324.754	97.3166	ppb	1.0694	1.1	6841.40
Fe 271.441	4639.34	ppb	25.3998	0.5	12692.2
K 766.491	4700.87	ppb	28.7123	0.6	291124
Mg 279.078	4534.45	ppb	16.6707	0.4	23909.0
Mn 257.610	477.586	ppb	2.4548	0.5	162027
Mo 202.032	95.3602	ppb	0.7271	0.8	891.148
Na 330.237	4548.54	ppb	54.0444	1.2	560.572
Ni 231.604	96.4144	ppb	0.2862	0.3	507.938
Pb 220.353	465.723	ppb	5.1381	1.1	1575.63
Sb 206.834	40.9179	ppb	2.6013	6.4	107.749
Se 196.026	92.6270	ppb	0.9089	1.0	62.3267
Sn 189.925	197.529	ppb	0.4914	0.2	289.949
Sr 216.596	94.0456	ppb	0.5590	0.6	2268.37
Ti 334.941	93.7514	ppb	0.5023	0.5	30996.2
Tl 190.794	38.5791	ppb	0.5689	1.5	20.2860
V 292.401	95.1747	ppb	0.8648	0.9	3586.22
Zn 206.200	96.4998	ppb	1.2376	1.3	290.447

680-115767-a-6-a (Samp)      8/19/2015, 6:08:53 PM      Rack 1, Tube 36  
 Weight: 1      Volume: 1      Dilution: 1

Label	Replicates	Concentration			
Ag 328.068	-1.9111u	-1.6954u	-1.1429u		
Al 308.215	99550.4	99349.2	102299		
As 188.980	35.8048	35.6628	38.2561		
B 249.678	5.4838u	5.7515u	5.2981u		
Ba 389.178	1246.95	1244.70	1278.45		
Be 313.042	6.4536	6.4650	6.6259		
Ca 370.602	11268	11263	11621		
Cd 226.502	-0.6674	-0.7608	-0.4776		
Co 228.615	63.7601	66.3038	65.8241		
Cr 267.716	89.6354	89.9547	92.3451		

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Label	Replicates	Concentration	
Cu 324.754	414.046	427.221	401.095
Fe 271.441	130075	130374	133818
K 766.491	4872.22	4874.94	4986.51
Mg 279.078	7853.58	7887.69	8071.05
Mn 257.610	5162.96	5189.69	5330.44
Mo 202.032	4.1360	4.1205	4.4144
Na 330.237	-326.509u	45.7946u	-186.271u
Ni 231.604	62.4634	62.7406	62.7584
Pb 220.353	2630.46	2627.62	2709.44
Sb 206.834	3.5599	5.1584	3.7573
Se 196.026	3.4753	5.4826	3.6689
Sn 189.925	17.2659	16.3580	17.0153
Sr 216.596	69.3807	69.5677	71.7589
Ti 334.941	478.635	483.429	490.039
Tl 190.794	8.9512	5.6488u	8.8546
V 292.401	120.332	120.914	123.676
Zn 206.200	260.343	261.071	267.034

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-1.5831	ppb	0.3962	25.0	-135.461
Al 308.215	100400	ppb	1648.08	1.6	854545
As 188.980	36.5746	ppb	1.4580	4.0	29.1757
B 249.678	5.5111	ppb	0.2279	4.1	-147.874
Ba 389.178	1256.70	ppb	18.8700	1.5	41438.8
Be 313.042	6.5148	ppb	0.0964	1.5	16720.2
Ca 370.602	11384	ppb	205.6	1.8	60318
Cd 226.502	-0.6353	ppb	0.1443	22.7	815.437
Co 228.615	65.2960	ppb	1.3515	2.1	1231.60
Cr 267.716	90.6450	ppb	1.4809	1.6	7466.97
Cu 324.754	414.121	ppb	13.0633	3.2	28424.5
Fe 271.441	131422	ppb	2080.29	1.6	355014
K 766.491	4911.22	ppb	65.2142	1.3	304127
Mg 279.078	7937.44	ppb	116.958	1.5	41527.4
Mn 257.610	5227.70	ppb	89.9750	1.7	1773061
Mo 202.032	4.2236	ppb	0.1654	3.9	57.4728
Na 330.237	-155.662	ppb	188.030	120.8	115.643
Ni 231.604	62.6542	ppb	0.1654	0.3	338.805
Pb 220.353	2655.84	ppb	46.4386	1.7	8709.41
Sb 206.834	4.1585	ppb	0.8715	21.0	45.6431
Se 196.026	4.2089	ppb	1.1073	26.3	-5.5742
Sn 189.925	16.8797	ppb	0.4689	2.8	-2.9167
Sr 216.596	70.2357	ppb	1.3224	1.9	2041.32
Ti 334.941	484.034	ppb	5.7262	1.2	160001
Tl 190.794	7.8182	ppb	1.8794	24.0	-51.8173
V 292.401	121.641	ppb	1.7866	1.5	4628.97
Zn 206.200	262.816	ppb	3.6714	1.4	789.612

Cont Calib Verif (CCV)      8/19/2015, 6:13:28 PM      Rack 1, Tube 37  
 Weight: 1      Volume: 1      Dilution: 1

Label	Replicates	Concentration	
Ag 328.068	501.274	490.423	503.072
Al 308.215	4887.91	4867.09	4790.68
As 188.980	484.330	489.805	486.944

Label	Replicates	Concentration					
B 249.678	476.427	475.990	470.867				
Ba 389.178	4900.46	4902.14	4820.44				
Be 313.042	489.192	488.156	480.993				
Ca 370.602	5247	5235	5138				
Cd 226.502	500.879	499.535	491.269				
Co 228.615	494.199	492.733	484.680				
Cr 267.716	5061.31	5050.02	4968.43				
Cu 324.754	4999.73	4818.88	5147.33				
Fe 271.441	4886.06	4865.11	4779.96				
K 766.491	9799.18	9772.24	9630.94				
Mg 279.078	4900.86	4876.18	4802.56				
Mn 257.610	4972.52	4952.90	4882.43				
Mo 202.032	503.364	498.282	492.826				
Na 330.237	7110.95	7167.82	6828.96				
Ni 231.604	2458.53	2446.60	2409.56				
Pb 220.353	502.225	499.323	490.582				
Sb 206.834	1004.25	988.357	976.930				
Se 196.026	4848.37	4791.42	4736.37				
Sn 189.925	4858.76	4945.67	5049.33				
Sr 216.596	2493.24	2485.92	2437.73				
Ti 334.941	484.264	482.531	475.798				
Tl 190.794	4977.02	4970.19	4880.39				
V 292.401	4900.79	4890.15	4825.24				
Zn 206.200	2492.10	2474.25	2433.63				

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)	QC Value	
Ag 328.068	498.257	ppb	6.8430	1.4	47243.4	99.65134	
Al 308.215	4848.56	ppb	51.1929	1.1	42603.6	96.97115	
As 188.980	487.026	ppb	2.7381	0.6	563.307	97.40526	
B 249.678	474.428	ppb	3.0914	0.7	9273.08	94.88561	
Ba 389.178	4874.35	ppb	46.6922	1.0	160888	97.48697	
Be 313.042	486.114	ppb	4.4644	0.9	1298730	97.22271	
Ca 370.602	5206	ppb	59.91	1.2	29331	104.12709	
Cd 226.502	497.228	ppb	5.2037	1.0	44001.3	99.44554	
Co 228.615	490.537	ppb	5.1251	1.0	9624.23	98.10750	
Cr 267.716	5026.58	ppb	50.6818	1.0	406611	100.53168	
Cu 324.754	4988.65	ppb	164.506	3.3	339304	99.77294	
Fe 271.441	4843.71	ppb	56.1963	1.2	13415.6	96.87424	
K 766.491	9734.12	ppb	90.3667	0.9	602264	97.34117	
Mg 279.078	4859.87	ppb	51.1439	1.1	25440.8	97.19734	
Mn 257.610	4935.95	ppb	47.3755	1.0	1673528	98.71896	
Mo 202.032	498.157	ppb	5.2700	1.1	4533.89	99.63147	
Na 330.237	7035.91	ppb	181.467	2.6	765.080	93.81213	
Ni 231.604	2438.23	ppb	25.5364	1.0	13068.3	97.52922	
Pb 220.353	497.377	ppb	6.0605	1.2	1681.91	99.47539	
Sb 206.834	989.846	ppb	13.7222	1.4	1756.88	98.98465	
Se 196.026	4792.05	ppb	56.0031	1.2	3719.78	95.84104	
Sn 189.925	4951.25	ppb	95.4078	1.9	7996.53	99.02510	
Sr 216.596	2472.30	ppb	30.1607	1.2	57868.6	98.89181	
Ti 334.941	480.864	ppb	4.4725	0.9	158924	96.17287	
Tl 190.794	4942.53	ppb	53.9247	1.1	9131.07	98.85069	
V 292.401	4872.06	ppb	40.8952	0.8	186173	97.44122	
Zn 206.200	2466.66	ppb	29.9679	1.2	7362.64	98.66643	

E08192015.wvq. All Data Report 8/20/2015, 3:03:52 PM

Cont Calib Blank (CCB)		8/19/2015, 6:18:02 PM		Rack 1, Tube 38		
Weight: 1		Volume: 1		Dilution: 1		
Label	Replicates	Concentration				
Ag 328.068	-0.3335u	0.1623	0.6814			
Al 308.215	-16.0761u	-17.4104u	-15.4192u			
As 188.980	-3.1114u	-4.0584u	-1.9639u			
B 249.678	5.2209	4.1105	3.7488			
Ba 389.178	1.8675	1.6032	1.3389			
Be 313.042	0.0046	-0.0029u	0.0034			
Ca 370.602	1.909	3.878	1.977			
Cd 226.502	0.5377	0.6313	0.4565			
Co 228.615	0.0135	0.0029u	0.1555			
Cr 267.716	-0.2101u	0.0746	-0.3226u			
Cu 324.754	0.4947	0.4601	1.0716			
Fe 271.441	-7.2116u	-8.4426u	-1.6621u			
K 766.491	-0.1156u	0.5173	-1.1577u			
Mg 279.078	-3.8733u	-4.3318u	-1.6550u			
Mn 257.610	0.0092	0.0250	0.0255			
Mo 202.032	1.0596	1.6879	0.7146			
Na 330.237	2.8042	330.746	36.9796			
Ni 231.604	1.6516	1.7521	1.2374			
Pb 220.353	-1.8618u	-0.0915u	-0.2148u			
Sb 206.834	-6.7409u	-1.0878u	-6.5928u			
Se 196.026	-5.6252u	-5.4119u	1.6636			
Sn 189.925	0.6884	-0.9264u	1.3420			
Sr 216.596	0.4656	0.1787	-0.1682u			
Ti 334.941	0.1435	0.0372	-0.0101u			
Tl 190.794	-0.5192u	1.4313	-0.8544u			
V 292.401	0.2528	0.3094	0.6752			
Zn 206.200	-0.1344u	0.2122	0.8161			

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)	QC Value
Ag 328.068	0.1701	ppb	0.5075	298.4	27.6418	0.17007
Al 308.215	-16.3019	ppb	1.0146	6.2	552.760	-16.30191
As 188.980	-3.0446	ppb	1.0489	34.5	-16.1817	-3.04458
B 249.678	4.3601	ppb	0.7671	17.6	179.816	4.36009
Ba 389.178	1.6032	ppb	0.2643	16.5	-159.752	1.60320
Be 313.042	0.0017	ppb	0.0040	237.3	-707.156	0.00170
Ca 370.602	2.588	ppb	1.118	43.2	-20.70	2.58827
Cd 226.502	0.5418	ppb	0.0875	16.1	138.885	0.54184
Co 228.615	0.0573	ppb	0.0852	148.8	-70.3160	0.05729
Cr 267.716	-0.1527	ppb	0.2047	134.1	31.0697	-0.15267
Cu 324.754	0.6754	ppb	0.3435	50.9	267.638	0.67544
Fe 271.441	-5.7721	ppb	3.6122	62.6	139.701	-5.77214
K 766.491	-0.2520	ppb	0.8458	335.6	513.371	-0.25201
Mg 279.078	-3.2867	ppb	1.4316	43.6	92.4754	-3.28668
Mn 257.610	0.0199	ppb	0.0093	46.5	43.7168	0.01991
Mo 202.032	1.1540	ppb	0.4935	42.8	37.9835	1.15405
Na 330.237	123.510	ppb	180.283	146.0	193.015	123.50991
Ni 231.604	1.5470	ppb	0.2728	17.6	-1.1886	1.54703
Pb 220.353	-0.7227	ppb	0.9884	136.8	60.1623	-0.72269
Sb 206.834	-4.8072	ppb	3.2219	67.0	32.0667	-4.80716
Se 196.026	-3.1245	ppb	4.1480	132.8	-12.3093	-3.12449
Sn 189.925	0.3680	ppb	1.1676	317.3	-29.6843	0.36801
Sr 216.596	0.1587	ppb	0.3174	200.0	62.4607	0.15869

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Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)	QC Value
Ti 334.941	0.0569	ppb	0.0787	138.3	23.8244	0.05687
Tl 190.794	0.0192	ppb	1.2344	6417.0	-51.1840	0.01924
V 292.401	0.4125	ppb	0.2293	55.6	-13.1784	0.41248
Zn 206.200	0.2980	ppb	0.4810	161.4	2.5516	0.29798

**680-115767-a-6-aSD (Samp)      8/19/2015, 6:22:36 PM      Rack 1, Tube 39**  
**Weight: 1      Volume: 1      Dilution: 1**

Label	Replicates	Concentration				
Ag 328.068	-0.5347u	-0.4755u	-0.6479u			
Al 308.215	20279.1	19889.8	19638.3			
As 188.980	3.0024	3.3751	8.5159			
B 249.678	2.7939u	2.3548u	2.3432u			
Ba 389.178	253.315	248.715	246.627			
Be 313.042	1.2894	1.2617	1.2510			
Ca 370.602	2295	2253	2233			
Cd 226.502	0.2730	0.0790	0.2134			
Co 228.615	13.4837	13.6173	13.9206			
Cr 267.716	18.4139	18.0493	17.7595			
Cu 324.754	82.9775	78.1011	79.0791			
Fe 271.441	26447.9	26036.5	25725.2			
K 766.491	935.149	918.063	908.354			
Mg 279.078	1605.32	1571.78	1551.39			
Mn 257.610	1073.17	1054.39	1041.81			
Mo 202.032	2.1615	1.0356	1.1823			
Na 330.237	-40.4088u	-201.871u	-52.1656u			
Ni 231.604	13.7525	15.1336	14.5872			
Pb 220.353	542.446	531.388	523.336			
Sb 206.834	-1.2154u	-2.8266u	1.8397			
Se 196.026	6.0511	3.9778	-10.0260u			
Sn 189.925	4.4092	3.3109	4.2501			
Sr 216.596	14.6563	14.5135	13.8045			
Ti 334.941	97.2019	94.4671	92.9641			
Tl 190.794	-0.3419u	1.8385	-0.8114u			
V 292.401	24.7641	24.3879	24.1635			
Zn 206.200	52.3779	52.6339	51.1321			

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.5527	ppb	0.0876	15.9	-40.1918
Al 308.215	19935.7	ppb	322.861	1.6	170236
As 188.980	4.9644	ppb	3.0813	62.1	-7.0067
B 249.678	2.4973	ppb	0.2569	10.3	74.3939
Ba 389.178	249.552	ppb	3.4216	1.4	8058.31
Be 313.042	1.2674	ppb	0.0198	1.6	2679.67
Ca 370.602	2260	ppb	31.60	1.4	11946
Cd 226.502	0.1885	ppb	0.0994	52.7	262.513
Co 228.615	13.6739	ppb	0.2239	1.6	201.251
Cr 267.716	18.0742	ppb	0.3279	1.8	1523.68
Cu 324.754	80.0526	ppb	2.5798	3.2	5673.77
Fe 271.441	26069.9	ppb	362.505	1.4	70547.6
K 766.491	920.522	ppb	13.5654	1.5	57433.0
Mg 279.078	1576.16	ppb	27.2316	1.7	8333.45
Mn 257.610	1056.46	ppb	15.7788	1.5	358343
Mo 202.032	1.4598	ppb	0.6121	41.9	39.1026

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Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Na 330.237	-98.1484	ppb	90.0183	91.7	163.780
Ni 231.604	14.4911	ppb	0.6956	4.8	70.6646
Pb 220.353	532.390	ppb	9.5940	1.8	1795.83
Sb 206.834	-0.7341	ppb	2.3701	322.8	38.5742
Se 196.026	0.0010	ppb	8.7453	919877.1	-9.6660
Sn 189.925	3.9901	ppb	0.5935	14.9	-23.8126
Sr 216.596	14.3248	ppb	0.4562	3.2	461.204
Ti 334.941	94.8777	ppb	2.1485	2.3	31366.6
Tl 190.794	0.2284	ppb	1.4140	619.1	-53.7704
V 292.401	24.4385	ppb	0.3035	1.2	906.905
Zn 206.200	52.0480	ppb	0.8034	1.5	157.702

680-115767-a-6-aPDS (Samp)

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Rack 1, Tube 40

Weight: 1

Volume: 1

Dilution: 1

Label	Replicates	Concentration
Ag 328.068	61.6109	58.8934
Al 308.215	102274	100472
As 188.980	131.129	131.716
B 249.678	186.081	183.242
Ba 389.178	1354.72	1337.48
Be 313.042	103.691	100.465
Ca 370.602	21097	20594
Cd 226.502	94.3377	91.6781
Co 228.615	162.713	158.200
Cr 267.716	190.342	185.746
Cu 324.754	492.409	518.315
Fe 271.441	141198	138692
K 766.491	14706.2	14299.4
Mg 279.078	17175.6	16728.9
Mn 257.610	6189.19	6080.77
Mo 202.032	100.410	96.7496
Na 330.237	8674.53	8582.27
Ni 231.604	158.190	155.277
Pb 220.353	2741.68	2707.84
Sb 206.834	102.643	96.5382
Se 196.026	97.0855	97.8347
Sn 189.925	108.417	106.060
Sr 216.596	165.927	160.340
Ti 334.941	582.125	575.975
Tl 190.794	23.9516	22.2387
V 292.401	219.969	215.632
Zn 206.200	359.863	354.511

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	59.7529	ppb	1.6106	2.7	5685.49
Al 308.215	101181	ppb	960.052	0.9	861212
As 188.980	132.376	ppb	1.6762	1.3	142.372
B 249.678	183.555	ppb	2.3850	1.3	3273.76
Ba 389.178	1344.05	ppb	9.3219	0.7	44354.6
Be 313.042	101.359	ppb	2.0374	2.0	270185
Ca 370.602	20812	ppb	257.9	1.2	112304
Cd 226.502	92.3110	ppb	1.7960	1.9	9068.54
Co 228.615	159.162	ppb	3.1813	2.0	3084.33

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<b>Label</b>	<b>Sol'n Conc.</b>	<b>Units</b>	<b>SD</b>	<b>%RSD</b>	<b>Int. (c/s)</b>
Cr 267.716	187.174	ppb	2.7484	1.5	15282.9
Cu 324.754	503.656	ppb	13.2859	2.6	34516.7
Fe 271.441	139797	ppb	1279.02	0.9	377643
K 766.491	14417.7	ppb	251.194	1.7	891790
Mg 279.078	16885.1	ppb	251.799	1.5	88497.5
Mn 257.610	6124.10	ppb	57.3939	0.9	2077110
Mo 202.032	98.2544	ppb	1.9148	1.9	908.811
Na 330.237	8502.88	ppb	222.240	2.6	835.238
Ni 231.604	156.227	ppb	1.7004	1.1	841.152
Pb 220.353	2725.55	ppb	16.9781	0.6	8937.23
Sb 206.834	96.5463	ppb	6.0925	6.3	198.665
Se 196.026	98.2542	ppb	1.4255	1.5	67.8694
Sn 189.925	107.434	ppb	1.2261	1.1	143.893
Sr 216.596	162.407	ppb	3.0633	1.9	4216.89
Ti 334.941	577.766	ppb	3.7955	0.7	190994
Tl 190.794	23.1238	ppb	0.8579	3.7	-23.4762
V 292.401	216.922	ppb	2.6495	1.2	8248.40
Zn 206.200	355.904	ppb	3.4788	1.0	1068.17

**680-115767-a-6-b ms (Samp)      8/19/2015, 6:31:44 PM**  
**Weight: 1**      **Volume: 1**      **Rack 1, Tube 41**  
**Dilution: 1**

<b>Label</b>	<b>Replicates</b>	<b>Concentration</b>
Ag 328.068	47.4721	47.4679
Al 308.215	109630	110039
As 188.980	129.960	137.107
B 249.678	128.689	129.561
Ba 389.178	1313.66	1317.39
Be 313.042	55.1725	55.4409
Ca 370.602	17563	17611
Cd 226.502	47.7172	48.0448
Co 228.615	110.373	113.636
Cr 267.716	187.377	187.719
Cu 324.754	333.016	324.620
Fe 271.441	145565	146312
K 766.491	9505.75	9556.88
Mg 279.078	13860.2	13924.5
Mn 257.610	5179.26	5200.64
Mo 202.032	92.9422	93.0851
Na 330.237	4361.13	4504.52
Ni 231.604	157.501	156.249
Pb 220.353	1773.40	1785.96
Sb 206.834	28.4567	23.6342
Se 196.026	96.9713	89.5413
Sn 189.925	196.304	194.836
Sr 216.596	158.159	158.764
Ti 334.941	519.976	528.968
Tl 190.794	49.7523	49.3173
V 292.401	221.630	223.469
Zn 206.200	344.174	345.197

<b>Label</b>	<b>Sol'n Conc.</b>	<b>Units</b>	<b>SD</b>	<b>%RSD</b>	<b>Int. (c/s)</b>
Ag 328.068	46.6653	ppb	1.3938	3.0	4437.21
Al 308.215	109616	ppb	429.599	0.4	932944

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Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
As 188.980	132.794	ppb	3.7962	2.9	142.803
B 249.678	128.913	ppb	0.5695	0.4	2200.69
Ba 389.178	1313.38	ppb	4.1595	0.3	43338.5
Be 313.042	55.1872	ppb	0.2467	0.4	146791
Ca 370.602	17538	ppb	87.81	0.5	93990
Cd 226.502	47.6971	ppb	0.3582	0.8	5165.81
Co 228.615	111.952	ppb	1.6341	1.5	2149.47
Cr 267.716	187.024	ppb	0.9235	0.5	15266.6
Cu 324.754	330.549	ppb	5.1591	1.6	22750.9
Fe 271.441	145662	ppb	606.972	0.4	393471
K 766.491	9519.50	ppb	32.7497	0.3	588997
Mg 279.078	13854.9	ppb	72.4581	0.5	72609.9
Mn 257.610	5176.82	ppb	25.1313	0.5	1755949
Mo 202.032	92.6578	ppb	0.6204	0.7	857.734
Na 330.237	4394.86	ppb	97.2745	2.2	489.782
Ni 231.604	157.372	ppb	1.0648	0.7	848.055
Pb 220.353	1773.29	ppb	12.7257	0.7	5844.79
Sb 206.834	25.3014	ppb	2.7341	10.8	80.4336
Se 196.026	93.9562	ppb	3.9078	4.2	64.1132
Sn 189.925	195.165	ppb	1.0149	0.5	286.116
Sr 216.596	157.712	ppb	1.3331	0.8	4121.87
Ti 334.941	522.804	ppb	5.3442	1.0	172826
Tl 190.794	48.5081	ppb	1.7915	3.7	21.6820
V 292.401	222.207	ppb	1.0950	0.5	8451.80
Zn 206.200	343.621	ppb	1.9130	0.6	1031.32

680-115767-a-6-c msd (Samp)

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Rack 1, Tube 42

Weight: 1

Volume: 1

Dilution: 1

Label	Replicates	Concentration	
Ag 328.068	46.2864	46.2030	46.5056
Al 308.215	108763	110090	108656
As 188.980	129.067	138.651	135.290
B 249.678	123.974	125.687	124.885
Ba 389.178	1344.71	1362.83	1346.23
Be 313.042	54.9797	55.7067	54.8908
Ca 370.602	12889	13064	12834
Cd 226.502	47.1751	47.4762	46.9849
Co 228.615	117.155	118.458	116.917
Cr 267.716	200.559	202.655	200.030
Cu 324.754	313.575	318.395	321.219
Fe 271.441	141538	143085	141414
K 766.491	8941.12	8979.14	8881.30
Mg 279.078	10920.3	11026.7	10917.5
Mn 257.610	5561.05	5603.96	5544.49
Mo 202.032	92.6679	92.9213	92.0832
Na 330.237	4279.56	4623.14	4285.77
Ni 231.604	162.732	162.125	160.326
Pb 220.353	1791.99	1805.62	1791.30
Sb 206.834	27.5162	32.6020	25.4833
Se 196.026	102.399	90.9118	90.2467
Sn 189.925	198.648	194.552	198.962
Sr 216.596	153.112	154.838	153.867
Ti 334.941	471.718	477.227	467.500

E08192015.wvq. All Data Report 8/20/2015, 3:03:52 PM

Label	Replicates Concentration			
Tl 190.794	44.7846	46.1505	45.7455	
V 292.401	223.129	225.763	222.641	
Zn 206.200	343.720	349.561	346.029	

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	46.3317	ppb	0.1563	0.3	4408.71
Al 308.215	109170	ppb	798.383	0.7	929148
As 188.980	134.336	ppb	4.8631	3.6	144.669
B 249.678	124.849	ppb	0.8568	0.7	2131.63
Ba 389.178	1351.26	ppb	10.0522	0.7	44580.2
Be 313.042	55.1924	ppb	0.4476	0.8	146803
Ca 370.602	12929	ppb	120.2	0.9	68597
Cd 226.502	47.2121	ppb	0.2478	0.5	5101.71
Co 228.615	117.510	ppb	0.8293	0.7	2257.63
Cr 267.716	201.081	ppb	1.3879	0.7	16405.0
Cu 324.754	317.729	ppb	3.8652	1.2	21878.0
Fe 271.441	142013	ppb	931.127	0.7	383619
K 766.491	8933.85	ppb	49.3249	0.6	552794
Mg 279.078	10954.9	ppb	62.2498	0.6	57359.2
Mn 257.610	5569.83	ppb	30.6901	0.6	1889140
Mo 202.032	92.5575	ppb	0.4298	0.5	857.046
Na 330.237	4396.16	ppb	196.595	4.5	491.360
Ni 231.604	161.728	ppb	1.2513	0.8	871.057
Pb 220.353	1796.31	ppb	8.0769	0.4	5919.18
Sb 206.834	28.5338	ppb	3.6668	12.9	86.1054
Se 196.026	94.5191	ppb	6.8320	7.2	64.7320
Sn 189.925	197.387	ppb	2.4607	1.2	289.719
Sr 216.596	153.939	ppb	0.8653	0.6	4023.92
Ti 334.941	472.149	ppb	4.8778	1.0	156080
Tl 190.794	45.5602	ppb	0.7015	1.5	17.1410
V 292.401	223.844	ppb	1.6790	0.8	8513.04
Zn 206.200	346.436	ppb	2.9418	0.8	1039.64

680-115767-a-1-a (Samp)      8/19/2015, 6:40:53 PM      Rack 1, Tube 43  
 Weight: 1      Volume: 1      Dilution: 1

Label	Replicates Concentration			
Ag 328.068	-2.0597u	-2.3064u	-2.2918u	
Al 308.215	120789	117775	119325	
As 188.980	48.1672	46.6372	48.7503	
B 249.678	3.6039u	4.0655u	5.1335u	
Ba 389.178	1039.49	1016.85	1028.88	
Be 313.042	6.7381	6.6117	6.6882	
Ca 370.602	3134	3068	3104	
Cd 226.502	-1.4262	-1.4672	-1.4961	
Co 228.615	116.382	114.907	115.380	
Cr 267.716	100.582	98.4596	99.3819	
Cu 324.754	243.239	240.862	241.350	
Fe 271.441	203615	199604	202080	
K 766.491	12829.1	12524.4	12679.4	
Mg 279.078	6767.67	6608.80	6687.67	
Mn 257.610	5090.27	4957.35	5024.18	
Mo 202.032	4.4622	3.8450	3.8828	
Na 330.237	-385.882u	-219.454u	-270.059u	

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Label	Replicates Concentration		
Ni 231.604	107.766	105.713	107.884
Pb 220.353	1493.45	1451.17	1474.46
Sb 206.834	-10.0956u	-4.2096u	-7.9863u
Se 196.026	5.9659	12.6033	13.0482
Sn 189.925	12.4092	15.8284	17.4656
Sr 216.596	165.133	160.555	162.060
Ti 334.941	455.998	451.584	449.340
Tl 190.794	9.3734u	9.8964u	8.7381u
V 292.401	133.248	130.188	132.075
Zn 206.200	249.522	241.694	244.015

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-2.2193	ppb	0.1384	6.2	-213.767
Al 308.215	119296	ppb	1507.19	1.3	1015255
As 188.980	47.8516	ppb	1.0913	2.3	41.7051
B 249.678	4.2677	ppb	0.7846	18.4	-359.653
Ba 389.178	1028.41	ppb	11.3308	1.1	33949.1
Be 313.042	6.6793	ppb	0.0637	1.0	17157.9
Ca 370.602	3102	ppb	32.95	1.1	12839
Cd 226.502	-1.4632	ppb	0.0351	2.4	1161.54
Co 228.615	115.556	ppb	0.7532	0.7	2220.91
Cr 267.716	99.4745	ppb	1.0642	1.1	8207.53
Cu 324.754	241.817	ppb	1.2556	0.5	16739.2
Fe 271.441	201766	ppb	2023.58	1.0	544954
K 766.491	12677.6	ppb	152.368	1.2	784223
Mg 279.078	6688.05	ppb	79.4355	1.2	34957.9
Mn 257.610	5023.93	ppb	66.4623	1.3	1704292
Mo 202.032	4.0634	ppb	0.3459	8.5	51.6407
Na 330.237	-291.798	ppb	85.3168	29.2	75.5447
Ni 231.604	107.121	ppb	1.2209	1.1	583.784
Pb 220.353	1473.03	ppb	21.1760	1.4	4878.96
Sb 206.834	-7.4305	ppb	2.9821	40.1	25.0982
Se 196.026	10.5392	ppb	3.9668	37.6	-1.2630
Sn 189.925	15.2344	ppb	2.5800	16.9	-5.5845
Sr 216.596	162.582	ppb	2.3333	1.4	4385.04
Ti 334.941	452.307	ppb	3.3876	0.7	149524
Tl 190.794	9.3360	ppb	0.5801	6.2	-59.7577
V 292.401	131.837	ppb	1.5443	1.2	5018.64
Zn 206.200	245.077	ppb	4.0202	1.6	736.302

680-115767-a-2-a (Samp)      8/19/2015, 6:45:28 PM      Rack 1, Tube 44  
 Weight: 1      Volume: 1      Dilution: 1

Label	Replicates Concentration		
Ag 328.068	-2.0825u	-1.3780u	-2.0731u
Al 308.215	138825	138047	138185
As 188.980	48.0845	50.4359	48.1157
B 249.678	0.1203u	0.4969u	-0.5908u
Ba 389.178	1223.83	1216.06	1218.10
Be 313.042	6.8325	6.8028	6.7834
Ca 370.602	2560	2542	2529
Cd 226.502	-1.6765	-1.8395	-1.9261
Co 228.615	104.087	101.362	99.3088
Cr 267.716	135.761	134.628	134.296

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Label	Replicates	Concentration				
Cu 324.754	371.956	390.407	396.395			
Fe 271.441	228083	227219	226503			
K 766.491	7972.55	7995.49	7961.91			
Mg 279.078	7010.37	6983.38	6969.45			
Mn 257.610	4521.23	4496.84	4489.06			
Mo 202.032	6.6102	5.3411	5.9761			
Na 330.237	-162.047u	-60.6038u	-44.1299u			
Ni 231.604	126.936	129.328	129.781			
Pb 220.353	2390.61	2367.15	2372.00			
Sb 206.834	-3.1148u	-2.4960u	1.4072u			
Se 196.026	2.7461	2.2867	5.7491			
Sn 189.925	13.3004	13.7641	14.9406			
Sr 216.596	284.497	283.552	281.884			
Ti 334.941	545.971	534.550	538.691			
Tl 190.794	8.6190u	9.1849u	6.2765u			
V 292.401	168.168	167.033	166.799			
Zn 206.200	288.157	285.818	285.109			

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-1.8446	ppb	0.4041	21.9	-190.416
Al 308.215	138352	ppb	415.075	0.3	1177322
As 188.980	48.8787	ppb	1.3487	2.8	42.6240
B 249.678	0.0088	ppb	0.5524	6284.9	-510.026
Ba 389.178	1219.33	ppb	4.0278	0.3	40279.3
Be 313.042	6.8063	ppb	0.0247	0.4	17501.4
Ca 370.602	2544	ppb	15.57	0.6	9188
Cd 226.502	-1.8140	ppb	0.1267	7.0	1282.27
Co 228.615	101.586	ppb	2.3967	2.4	1947.11
Cr 267.716	134.895	ppb	0.7686	0.6	11079.1
Cu 324.754	386.253	ppb	12.7382	3.3	26567.7
Fe 271.441	227268	ppb	791.018	0.3	613809
K 766.491	7976.65	ppb	17.1606	0.2	493623
Mg 279.078	6987.73	ppb	20.8031	0.3	36539.3
Mn 257.610	4502.38	ppb	16.7856	0.4	1527594
Mo 202.032	5.9758	ppb	0.6345	10.6	67.3339
Na 330.237	-88.9271	ppb	63.8576	71.8	81.9946
Ni 231.604	128.681	ppb	1.5285	1.2	701.924
Pb 220.353	2376.59	ppb	12.3831	0.5	7817.13
Sb 206.834	-1.4012	ppb	2.4517	175.0	35.1101
Se 196.026	3.5939	ppb	1.8805	52.3	-7.0623
Sn 189.925	14.0017	ppb	0.8455	6.0	-7.5828
Sr 216.596	283.311	ppb	1.3230	0.5	7278.94
Ti 334.941	539.737	ppb	5.7820	1.1	178422
Tl 190.794	8.0268	ppb	1.5420	19.2	-66.5380
V 292.401	167.334	ppb	0.7323	0.4	6376.56
Zn 206.200	286.361	ppb	1.5953	0.6	859.903

680-115767-a-3-a (Samp)      8/19/2015, 6:50:04 PM      Rack 1, Tube 45  
 Weight: 1      Volume: 1      Dilution: 1

Label	Replicates	Concentration				
Ag 328.068	-2.2214u	-1.3027u	-1.9190u			
Al 308.215	122658	129952	122025			
As 188.980	35.8965	40.3099	39.8594			

Label	Replicates	Concentration				
B 249.678	6.0381u	5.8538u	8.0075u			
Ba 389.178	1013.89	1073.47	1009.09			
Be 313.042	6.7707	7.1948	6.7596			
Ca 370.602	1616	1664	1610			
Cd 226.502	-1.6840	-0.9581	-1.8987			
Co 228.615	85.3291	89.9112	81.8941			
Cr 267.716	109.571	116.634	109.484			
Cu 324.754	165.894	175.500	168.652			
Fe 271.441	178146	188854	176929			
K 766.491	11394.1	12016.3	11363.5			
Mg 279.078	6378.47	6754.97	6324.56			
Mn 257.610	2561.37	2722.81	2552.26			
Mo 202.032	3.6216	5.3427	4.0391			
Na 330.237	-61.2007u	-114.411u	-277.883u			
Ni 231.604	83.4366	87.8342	82.8591			
Pb 220.353	672.059	713.676	665.298			
Sb 206.834	-12.5714u	-0.0237u	-3.5824u			
Se 196.026	14.6532	9.0126	7.3457			
Sn 189.925	15.3045	12.9020	15.4924			
Sr 216.596	81.5366	86.8376	79.5380			
Ti 334.941	408.048	432.403	398.921			
Tl 190.794	6.1526u	8.0923u	9.3050u			
V 292.401	122.955	130.298	122.503			
Zn 206.200	209.386	220.847	206.024			

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-1.8144	ppb	0.4682	25.8	-182.307
Al 308.215	124878	ppb	4405.47	3.5	1062721
As 188.980	38.6886	ppb	2.4285	6.3	31.0992
B 249.678	6.6331	ppb	1.1938	18.0	-259.497
Ba 389.178	1032.15	ppb	35.8627	3.5	34055.8
Be 313.042	6.9084	ppb	0.2481	3.6	17771.3
Ca 370.602	1630	ppb	29.53	1.8	5052
Cd 226.502	-1.5136	ppb	0.4929	32.6	1035.62
Co 228.615	85.7115	ppb	4.0222	4.7	1630.58
Cr 267.716	111.896	ppb	4.1034	3.7	9186.88
Cu 324.754	170.015	ppb	4.9457	2.9	11850.1
Fe 271.441	181309	ppb	6562.04	3.6	489714
K 766.491	11591.3	ppb	368.333	3.2	717071
Mg 279.078	6486.00	ppb	234.490	3.6	33988.7
Mn 257.610	2612.15	ppb	95.9451	3.7	886540
Mo 202.032	4.3345	ppb	0.8978	20.7	55.3736
Na 330.237	-151.165	ppb	112.920	74.7	95.6807
Ni 231.604	84.7100	ppb	2.7210	3.2	461.768
Pb 220.353	683.678	ppb	26.1983	3.8	2310.68
Sb 206.834	-5.3925	ppb	6.4667	119.9	29.1015
Se 196.026	10.3372	ppb	3.8296	37.0	-2.2014
Sn 189.925	14.5663	ppb	1.4444	9.9	-6.6674
Sr 216.596	82.6374	ppb	3.7723	4.6	2460.01
Ti 334.941	413.124	ppb	17.3087	4.2	136572
Tl 190.794	7.8500	ppb	1.5901	20.3	-61.6062
V 292.401	125.252	ppb	4.3758	3.5	4765.00
Zn 206.200	212.086	ppb	7.7719	3.7	637.194

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**680-115767-a-4-a (Samp)**    **8/19/2015, 6:56:25 PM**    **Rack 1, Tube 46**  
**Weight: 1**                    **Volume: 1**                    **Dilution: 1**

<b>Label</b>	<b>Replicates</b>	<b>Concentration</b>			
Ag 328.068	-1.2325u	-1.7300u	-1.5574u		
Al 308.215	154948	155158	157419		
As 188.980	60.5938	60.1427	62.3476		
B 249.678	-7.1100u	-7.3232u	-7.7416u		
Ba 389.178	1203.51	1202.51	1225.39		
Be 313.042	6.6341	6.6372	6.7365		
Ca 370.602	3185	3173	3226		
Cd 226.502	-3.6383	-3.7921	-3.3443		
Co 228.615	179.485	177.945	179.390		
Cr 267.716	148.206	148.273	151.425		
Cu 324.754	419.827	421.561	418.546		
Fe 271.441	338890	338883	344483		
K 766.491	8417.21	8427.03	8519.06		
Mg 279.078	7558.49	7566.19	7687.59		
Mn 257.610	5095.67	5096.09	5179.41		
Mo 202.032	6.4338	6.3394	6.3863		
Na 330.237	-240.191u	-242.600u	-211.128u		
Ni 231.604	141.069	142.358	144.491		
Pb 220.353	3726.42	3736.31	3787.22		
Sb 206.834	8.1841	2.3840u	2.8989		
Se 196.026	8.3083	16.9196	22.2715		
Sn 189.925	17.1090	16.2050	17.9549		
Sr 216.596	263.180	262.531	268.539		
Ti 334.941	560.879	562.399	568.824		
Tl 190.794	13.4881u	15.6107u	14.5910u		
V 292.401	191.710	191.286	194.620		
Zn 206.200	339.347	340.089	342.186		

<b>Label</b>	<b>Sol'n Conc.</b>	<b>Units</b>	<b>SD</b>	<b>%RSD</b>	<b>Int. (c/s)</b>
Ag 328.068	-1.5066	ppb	0.2526	16.8	-175.409
Al 308.215	155841	ppb	1370.04	0.9	1326071
As 188.980	61.0280	ppb	1.1648	1.9	55.6854
B 249.678	-7.3916	ppb	0.3213	4.3	-955.740
Ba 389.178	1210.47	ppb	12.9262	1.1	40079.8
Be 313.042	6.6692	ppb	0.0582	0.9	17136.2
Ca 370.602	3195	ppb	27.83	0.9	10076
Cd 226.502	-3.5916	ppb	0.2275	6.3	1801.78
Co 228.615	178.940	ppb	0.8631	0.5	3471.99
Cr 267.716	149.302	ppb	1.8397	1.2	12293.7
Cu 324.754	419.978	ppb	1.5133	0.4	28905.3
Fe 271.441	340752	ppb	3231.03	0.9	920233
K 766.491	8454.43	ppb	56.1839	0.7	523158
Mg 279.078	7604.09	ppb	72.4187	1.0	39740.5
Mn 257.610	5123.72	ppb	48.2309	0.9	1738779
Mo 202.032	6.3865	ppb	0.0472	0.7	63.9731
Na 330.237	-231.307	ppb	17.5163	7.6	23.6243
Ni 231.604	142.639	ppb	1.7284	1.2	787.203
Pb 220.353	3749.99	ppb	32.6254	0.9	12296.7
Sb 206.834	4.4890	ppb	3.2104	71.5	42.7162
Se 196.026	15.8331	ppb	7.0447	44.5	1.8367
Sn 189.925	17.0896	ppb	0.8751	5.1	-2.5774
Sr 216.596	264.750	ppb	3.2975	1.2	7137.32

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Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ti 334.941	564.034	ppb	4.2177	0.7	186468
Tl 190.794	14.5633	ppb	1.0616	7.3	-70.9510
V 292.401	192.539	ppb	1.8150	0.9	7341.46
Zn 206.200	340.541	ppb	1.4725	0.4	1022.38

**680-115767-a-5-a (Samp)**      **8/19/2015, 7:01:00 PM**      **Rack 1, Tube 47**  
**Weight: 1**      **Volume: 1**      **Dilution: 1**

Label	Replicates	Concentration				
Ag 328.068	-0.9423u	-0.6521u	-0.9318u			
Al 308.215	195447	196036	196532			
As 188.980	70.0307	74.5485	68.6777			
B 249.678	-2.4347u	-2.5481u	-2.5774u			
Ba 389.178	599.044	600.054	604.430			
Be 313.042	5.0119	5.0205	5.0448			
Ca 370.602	1475	1471	1480			
Cd 226.502	-2.7510	-2.6579	-2.4591			
Co 228.615	66.2970	67.1448	66.6163			
Cr 267.716	210.560	211.822	212.047			
Cu 324.754	172.082	169.721	162.599			
Fe 271.441	322927	323061	324102			
K 766.491	12255.8	12311.8	12388.9			
Mg 279.078	6194.89	6216.13	6232.93			
Mn 257.610	1065.32	1065.49	1071.45			
Mo 202.032	9.4343	9.7584	9.8004			
Na 330.237	-257.990u	-201.179u	-253.315u			
Ni 231.604	56.7386	59.7743	60.0630			
Pb 220.353	123.069	125.897	124.452			
Sb 206.834	-12.4302u	-13.0667u	-9.0032u			
Se 196.026	22.6196	15.2472	12.4101			
Sn 189.925	15.7143	20.9890	18.6161			
Sr 216.596	65.7732	64.0202	66.4741			
Ti 334.941	676.832	676.611	687.734			
Tl 190.794	10.4117u	8.7026u	10.7227u			
V 292.401	280.440	280.932	282.054			
Zn 206.200	213.280	212.344	213.242			

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.8421	ppb	0.1646	19.5	-124.599
Al 308.215	196005	ppb	542.925	0.3	1667642
As 188.980	71.0856	ppb	3.0743	4.3	67.7856
B 249.678	-2.5201	ppb	0.0753	3.0	-815.272
Ba 389.178	601.176	ppb	2.8628	0.5	19929.5
Be 313.042	5.0257	ppb	0.0171	0.3	12758.5
Ca 370.602	1475	ppb	4.441	0.3	910.0
Cd 226.502	-2.6227	ppb	0.1491	5.7	1782.64
Co 228.615	66.6860	ppb	0.4282	0.6	1259.08
Cr 267.716	211.477	ppb	0.8018	0.4	17286.5
Cu 324.754	168.134	ppb	4.9367	2.9	11776.9
Fe 271.441	323363	ppb	643.344	0.2	873265
K 766.491	12318.8	ppb	66.8216	0.5	762043
Mg 279.078	6214.65	ppb	19.0618	0.3	32572.5
Mn 257.610	1067.42	ppb	3.4916	0.3	363495
Mo 202.032	9.6644	ppb	0.2003	2.1	94.6279

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Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Na 330.237	-237.495	ppb	31.5374	13.3	30.3952
Ni 231.604	58.8586	ppb	1.8417	3.1	336.643
Pb 220.353	124.473	ppb	1.4140	1.1	515.441
Sb 206.834	-11.5000	ppb	2.1856	19.0	17.5427
Se 196.026	16.7590	ppb	5.2699	31.4	1.1145
Sn 189.925	18.4398	ppb	2.6418	14.3	-0.3884
Sr 216.596	65.4225	ppb	1.2640	1.9	2425.75
Ti 334.941	680.393	ppb	6.3592	0.9	224918
Tl 190.794	9.9457	ppb	1.0877	10.9	-80.6106
V 292.401	281.142	ppb	0.8276	0.3	10731.7
Zn 206.200	212.955	ppb	0.5300	0.2	638.970

680-115767-a-7-a (Samp)

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Rack 1, Tube 48

Weight: 1

Volume: 1

Dilution: 1

Label	Replicates	Concentration			
Ag 328.068	-1.8656u	-1.3849u	-1.2331u		
Al 308.215	102628	102108	101746		
As 188.980	51.9978	46.6831	48.8526		
B 249.678	0.9502u	2.2280u	1.8916u		
Ba 389.178	953.526	948.347	947.133		
Be 313.042	5.4535	5.4163	5.4099		
Ca 370.602	4183	4155	4158		
Cd 226.502	-1.4229	-1.8330	-1.5592		
Co 228.615	61.0202	60.6890	61.2676		
Cr 267.716	111.716	110.981	110.582		
Cu 324.754	117.635	110.704	110.995		
Fe 271.441	181905	181071	180552		
K 766.491	6597.59	6566.41	6544.39		
Mg 279.078	4259.00	4233.72	4218.64		
Mn 257.610	3146.02	3124.56	3120.77		
Mo 202.032	4.6092	5.9869	4.1481		
Na 330.237	-303.396u	-342.980u	-361.831u		
Ni 231.604	48.8111	51.2868	52.0665		
Pb 220.353	549.470	541.721	547.184		
Sb 206.834	-9.1795u	-6.1377u	-3.5580u		
Se 196.026	3.1659	10.6580	12.6431		
Sn 189.925	13.8577	14.8931	16.3058		
Sr 216.596	69.2642	68.7904	68.3045		
Ti 334.941	447.965	441.390	447.284		
Tl 190.794	9.1373u	15.3388	13.1142u		
V 292.401	146.496	145.496	145.708		
Zn 206.200	154.137	156.854	153.518		

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-1.4945	ppb	0.3302	22.1	-148.478
Al 308.215	102161	ppb	443.300	0.4	869531
As 188.980	49.1778	ppb	2.6723	5.4	43.5114
B 249.678	1.6899	ppb	0.6624	39.2	-354.704
Ba 389.178	949.669	ppb	3.3951	0.4	31324.9
Be 313.042	5.4266	ppb	0.0235	0.4	13811.1
Ca 370.602	4166	ppb	15.38	0.4	19113
Cd 226.502	-1.6051	ppb	0.2089	13.0	1026.58
Co 228.615	60.9923	ppb	0.2903	0.5	1143.29

E08192015.wvq. All Data Report 8/20/2015, 3:03:52 PM

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Cr 267.716	111.093	ppb	0.5756	0.5	9125.00
Cu 324.754	113.111	ppb	3.9204	3.5	7981.41
Fe 271.441	181176	ppb	682.685	0.4	489350
K 766.491	6569.46	ppb	26.7347	0.4	406634
Mg 279.078	4237.12	ppb	20.3954	0.5	22170.0
Mn 257.610	3130.45	ppb	13.6170	0.4	1062228
Mo 202.032	4.9147	ppb	0.9567	19.5	60.6090
Na 330.237	-336.069	ppb	29.8241	8.9	80.3606
Ni 231.604	50.7215	ppb	1.6998	3.4	279.520
Pb 220.353	546.125	ppb	3.9817	0.7	1864.74
Sb 206.834	-6.2918	ppb	2.8139	44.7	27.5877
Se 196.026	8.8224	ppb	4.9982	56.7	-3.1772
Sn 189.925	15.0189	ppb	1.2289	8.2	-5.9338
Sr 216.596	68.7863	ppb	0.4799	0.7	2136.90
Ti 334.941	445.546	ppb	3.6156	0.8	147281
Tl 190.794	12.5301	ppb	3.1417	25.1	-52.5204
V 292.401	145.900	ppb	0.5267	0.4	5556.43
Zn 206.200	154.836	ppb	1.7748	1.1	465.394

Cont Calib Verif (CCV)

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Rack 1, Tube 49

Weight: 1

Volume: 1

Dilution: 1

Label	Replicates	Concentration
Ag 328.068	479.481	501.398
Al 308.215	4826.93	4966.30
As 188.980	481.804	501.620
B 249.678	470.894	485.093
Ba 389.178	4857.67	4991.66
Be 313.042	483.780	497.109
Ca 370.602	5187	5285
Cd 226.502	493.592	505.002
Co 228.615	489.252	500.509
Cr 267.716	4996.85	5121.41
Cu 324.754	4937.01	5007.10
Fe 271.441	4817.98	4942.31
K 766.491	9742.56	9823.54
Mg 279.078	4836.75	4961.81
Mn 257.610	4902.36	5034.28
Mo 202.032	494.370	507.859
Na 330.237	7097.76	7246.82
Ni 231.604	2430.80	2496.22
Pb 220.353	493.519	503.792
Sb 206.834	986.697	1017.10
Se 196.026	4794.46	4949.15
Sn 189.925	4878.06	4888.37
Sr 216.596	2451.60	2512.40
Ti 334.941	480.188	492.622
Tl 190.794	4895.25	5059.36
V 292.401	4850.72	4960.95
Zn 206.200	2443.36	2522.87

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)	QC Value
Ag 328.068	494.498	ppb	13.0194	2.6	46886.8	98.89967
Al 308.215	4873.04	ppb	80.7589	1.7	42813.4	97.46090

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<b>Label</b>	<b>Sol'n Conc.</b>	<b>Units</b>	<b>SD</b>	<b>%RSD</b>	<b>Int. (c/s)</b>	<b>QC Value</b>
As 188.980	486.822	ppb	13.0348	2.7	563.064	97.36437
B 249.678	476.239	ppb	7.7222	1.6	9308.05	95.24785
Ba 389.178	4901.75	ppb	77.8701	1.6	161794	98.03501
Be 313.042	487.996	ppb	7.8995	1.6	1303760	97.59912
Ca 370.602	5204	ppb	73.45	1.4	29321	104.08258
Cd 226.502	496.306	ppb	7.7065	1.6	43920.0	99.26114
Co 228.615	491.787	ppb	7.7705	1.6	9649.15	98.35741
Cr 267.716	5032.65	ppb	77.3403	1.5	407102	100.65310
Cu 324.754	4955.52	ppb	45.2635	0.9	337052	99.11037
Fe 271.441	4858.40	ppb	72.6931	1.5	13455.6	97.16791
K 766.491	9760.50	ppb	56.2536	0.6	603895	97.60502
Mg 279.078	4873.58	ppb	76.7628	1.6	25512.3	97.47153
Mn 257.610	4941.56	ppb	80.6084	1.6	1675432	98.83128
Mo 202.032	497.886	ppb	8.7608	1.8	4531.42	99.57728
Na 330.237	7145.66	ppb	87.6446	1.2	774.239	95.27549
Ni 231.604	2447.50	ppb	42.8828	1.8	13118.0	97.90012
Pb 220.353	494.867	ppb	8.3330	1.7	1673.77	98.97345
Sb 206.834	993.972	ppb	20.4831	2.1	1763.85	99.39717
Se 196.026	4845.45	ppb	89.8066	1.9	3761.32	96.90903
Sn 189.925	4858.32	ppb	43.4340	0.9	7845.86	97.16633
Sr 216.596	2468.33	ppb	38.5288	1.6	57775.5	98.73328
Ti 334.941	483.640	ppb	7.8477	1.6	159841	96.72803
Tl 190.794	4957.04	ppb	89.2433	1.8	9158.01	99.14085
V 292.401	4882.33	ppb	68.5230	1.4	186566	97.64660
Zn 206.200	2468.39	ppb	47.2374	1.9	7367.73	98.73544

Cont Calib Blank (CCB) 8/19/2015, 7:21:15 PM

Weight: 1 Volume: 1

Rack 1, Tube 50

Dilution: 1

<b>Label</b>	<b>Replicates</b>	<b>Concentration</b>
Ag 328.068	-0.0796u	-0.1952u
Al 308.215	-16.3174u	-13.5468u
As 188.980	-1.3266u	1.6199
B 249.678	3.2962	4.4781
Ba 389.178	2.4055	2.4754
Be 313.042	0.0045	-0.0013u
Ca 370.602	3.552	6.500
Cd 226.502	0.4532	0.4566
Co 228.615	0.2853	0.3828
Cr 267.716	-0.3373u	-0.1872u
Cu 324.754	0.0926	0.0233
Fe 271.441	-3.6641u	-10.0699u
K 766.491	-1.3515u	0.0260
Mg 279.078	-2.4543u	-2.4451u
Mn 257.610	0.0207	0.0180
Mo 202.032	0.9685	0.8631
Na 330.237	58.9956	-114.431u
Ni 231.604	1.5910	0.9900
Pb 220.353	-4.1295u	-0.2144u
Sb 206.834	0.1563	-5.7110u
Se 196.026	5.8260	0.0327
Sn 189.925	-0.9334u	1.0305
Sr 216.596	-0.0768u	0.5181
Ti 334.941	0.0606	0.0355

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Label	Replicates Concentration			
Tl 190.794	2.8566	0.7083	-1.0981u	
V 292.401	0.3873	0.2530	0.2725	
Zn 206.200	-0.4515u	-0.4743u	0.3061	

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)	QC Value
Ag 328.068	0.0582	ppb	0.3437	590.6	17.0330	0.05821
Al 308.215	-15.0065	ppb	1.3913	9.3	563.742	-15.00650
As 188.980	0.1671	ppb	1.4737	882.1	-12.3813	0.16706
B 249.678	3.5926	ppb	0.7807	21.7	165.011	3.59259
Ba 389.178	2.1740	ppb	0.4628	21.3	-140.893	2.17402
Be 313.042	0.0032	ppb	0.0041	126.5	-703.000	0.00322
Ca 370.602	5.630	ppb	1.807	32.1	-3.787	5.62971
Cd 226.502	0.4373	ppb	0.0305	7.0	129.631	0.43728
Co 228.615	0.2751	ppb	0.1131	41.1	-65.9927	0.27511
Cr 267.716	-0.3129	ppb	0.1155	36.9	18.1035	-0.31291
Cu 324.754	0.4239	ppb	0.6348	149.8	250.523	0.42387
Fe 271.441	-5.5292	ppb	3.9532	71.5	140.356	-5.52920
K 766.491	-0.6382	ppb	0.6901	108.1	489.499	-0.63818
Mg 279.078	-2.8005	ppb	0.6076	21.7	95.0280	-2.80049
Mn 257.610	0.0293	ppb	0.0173	59.0	46.9141	0.02935
Mo 202.032	0.8476	ppb	0.1294	15.3	35.2072	0.84760
Na 330.237	-122.137	ppb	185.106	151.6	172.500	-122.13723
Ni 231.604	1.2613	ppb	0.3047	24.2	-2.7218	1.26130
Pb 220.353	-1.8946	ppb	2.0156	106.4	56.3561	-1.89461
Sb 206.834	-4.0956	ppb	3.7175	90.8	33.2518	-4.09563
Se 196.026	2.4571	ppb	3.0099	122.5	-7.9673	2.45707
Sn 189.925	0.3898	ppb	1.1461	294.0	-29.6491	0.38981
Sr 216.596	0.1266	ppb	0.3392	268.0	61.7475	0.12655
Ti 334.941	0.0465	ppb	0.0128	27.6	20.4058	0.04647
Tl 190.794	0.8223	ppb	1.9798	240.8	-49.6938	0.82226
V 292.401	0.3043	ppb	0.0726	23.8	-17.2208	0.30426
Zn 206.200	-0.2066	ppb	0.4442	215.0	1.0384	-0.20658

680-115767-a-8-a (Samp)      8/19/2015, 7:25:49 PM      Rack 1, Tube 51  
 Weight: 1      Volume: 1      Dilution: 1

Label	Replicates Concentration			
Ag 328.068	-1.3194u	-1.9619u	-1.4718u	
Al 308.215	145794	144584	145661	
As 188.980	51.0671	54.0475	46.2153	
B 249.678	15.8187u	15.0560u	16.6545u	
Ba 389.178	914.575	909.743	918.206	
Be 313.042	6.3664	6.3355	6.3689	
Ca 370.602	20556	20420	20451	
Cd 226.502	9.5012	9.2250	9.4159	
Co 228.615	78.7061	78.1282	78.0913	
Cr 267.716	139.881	139.129	139.424	
Cu 324.754	419.925	393.386	424.241	
Fe 271.441	232222	230301	231643	
K 766.491	14408.5	14339.0	14474.3	
Mg 279.078	6177.71	6133.62	6182.67	
Mn 257.610	3300.60	3282.25	3301.35	
Mo 202.032	5.3713	7.6111	6.4216	
Na 330.237	-121.983u	-143.943u	-53.0416u	

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Label	Replicates	Concentration			
Ni 231.604	78.7336	77.0904	80.1871		
Pb 220.353	926.414	918.698	925.645		
Sb 206.834	27.5945	27.5376	25.2723		
Se 196.026	-1.7803u	16.2411	11.5066		
Sn 189.925	242.360	236.873	234.217		
Sr 216.596	90.1954	89.8428	89.8513		
Ti 334.941	619.652	618.057	620.556		
Tl 190.794	12.6584u	13.9501u	12.4963u		
V 292.401	173.974	172.992	174.006		
Zn 206.200	645.382	644.375	644.983		

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-1.5844	ppb	0.3357	21.2	-166.157
Al 308.215	145346	ppb	663.159	0.5	1236801
As 188.980	50.4433	ppb	3.9532	7.8	44.4257
B 249.678	15.8431	ppb	0.7995	5.0	-214.728
Ba 389.178	914.175	ppb	4.2456	0.5	30197.4
Be 313.042	6.3569	ppb	0.0186	0.3	16311.0
Ca 370.602	20476	ppb	71.65	0.3	108115
Cd 226.502	9.3807	ppb	0.1414	1.5	2295.17
Co 228.615	78.3086	ppb	0.3448	0.4	1489.55
Cr 267.716	139.478	ppb	0.3791	0.3	11442.8
Cu 324.754	412.517	ppb	16.7078	4.1	28354.8
Fe 271.441	231389	ppb	985.776	0.4	624930
K 766.491	14407.3	ppb	67.6720	0.5	891145
Mg 279.078	6164.67	ppb	26.9992	0.4	32258.6
Mn 257.610	3294.74	ppb	10.8182	0.3	1118183
Mo 202.032	6.4680	ppb	1.1206	17.3	71.5204
Na 330.237	-106.323	ppb	47.4311	44.6	78.3274
Ni 231.604	78.6704	ppb	1.5493	2.0	434.156
Pb 220.353	923.586	ppb	4.2501	0.5	3097.85
Sb 206.834	26.8015	ppb	1.3246	4.9	81.9329
Se 196.026	8.6558	ppb	9.3428	107.9	-3.6250
Sn 189.925	237.817	ppb	4.1530	1.7	355.259
Sr 216.596	89.9632	ppb	0.2012	0.2	2761.97
Ti 334.941	619.422	ppb	1.2654	0.2	204754
Tl 190.794	13.0350	ppb	0.7967	6.1	-59.0391
V 292.401	173.657	ppb	0.5764	0.3	6619.13
Zn 206.200	644.913	ppb	0.5069	0.1	1935.88

680-115767-a-9-a (Samp)      8/19/2015, 7:30:22 PM      Rack 1, Tube 52  
 Weight: 1      Volume: 1      Dilution: 1

Label	Replicates	Concentration			
Ag 328.068	-1.9414u	-2.9499u	-3.0534u		
Al 308.215	107500	106667	107290		
As 188.980	62.1620	57.2073	55.7786		
B 249.678	3.3351u	4.0003u	3.1086u		
Ba 389.178	423.678	420.924	422.120		
Be 313.042	5.0228	5.0096	5.0350		
Ca 370.602	141015	140980	141606		
Cd 226.502	-1.1260	-1.5222	-1.3316		
Co 228.615	37.5758	38.0369	38.1225		
Cr 267.716	154.588	155.081	155.171		

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Label	Replicates	Concentration			
Cu 324.754	98.0721	101.924	99.5412		
Fe 271.441	210441	209634	210907		
K 766.491	9683.05	9647.47	9685.67		
Mg 279.078	81447.8	81399.4	81742.7		
Mn 257.610	2630.96	2635.43	2640.61		
Mo 202.032	6.7168	6.8161	7.0221		
Na 330.237	-472.424u	-149.481u	-403.605u		
Ni 231.604	47.2288	46.6942	47.2490		
Pb 220.353	116.510	123.857	115.339		
Sb 206.834	-4.2929u	-10.2608u	-8.6807u		
Se 196.026	8.7703	7.8073	-1.3802u		
Sn 189.925	16.9285	21.5543	20.1546		
Sr 216.596	81.9896	82.2218	82.5212		
Ti 334.941	830.382	828.528	831.907		
Tl 190.794	9.7435u	9.0959u	8.6166u		
V 292.401	256.770	254.351	256.604		
Zn 206.200	172.088	168.619	170.809		

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-2.6482	ppb	0.6143	23.2	-268.349
Al 308.215	107152	ppb	433.411	0.4	912000
As 188.980	58.3826	ppb	3.3501	5.7	54.0630
B 249.678	3.4813	ppb	0.4635	13.3	-398.192
Ba 389.178	422.241	ppb	1.3808	0.3	14106.9
Be 313.042	5.0225	ppb	0.0127	0.3	12800.7
Ca 370.602	141200	ppb	352.0	0.2	775443
Cd 226.502	-1.3266	ppb	0.1982	14.9	1226.14
Co 228.615	37.9117	ppb	0.2941	0.8	700.159
Cr 267.716	154.947	ppb	0.3140	0.2	12680.0
Cu 324.754	99.8459	ppb	1.9441	1.9	7089.87
Fe 271.441	210327	ppb	644.521	0.3	568058
K 766.491	9672.06	ppb	21.3405	0.2	598428
Mg 279.078	81530.0	ppb	185.827	0.2	428244
Mn 257.610	2635.67	ppb	4.8270	0.2	895553
Mo 202.032	6.8517	ppb	0.1558	2.3	76.1827
Na 330.237	-341.837	ppb	170.102	49.8	67.8632
Ni 231.604	47.0573	ppb	0.3146	0.7	262.728
Pb 220.353	118.569	ppb	4.6170	3.9	480.299
Sb 206.834	-7.7448	ppb	3.0921	39.9	25.2456
Se 196.026	5.0658	ppb	5.6031	110.6	-6.5126
Sn 189.925	19.5458	ppb	2.3722	12.1	1.4049
Sr 216.596	82.2442	ppb	0.2665	0.3	2528.22
Ti 334.941	830.272	ppb	1.6924	0.2	274579
Tl 190.794	9.1520	ppb	0.5655	6.2	-63.5196
V 292.401	255.908	ppb	1.3511	0.5	9772.95
Zn 206.200	170.505	ppb	1.7540	1.0	512.056

680-115767-a-10-a (Samp)      8/19/2015, 7:34:57 PM      Rack 1, Tube 53  
 Weight: 1      Volume: 1      Dilution: 1

Label	Replicates	Concentration			
Ag 328.068	-2.3184u	-2.2167u	-2.2689u		
Al 308.215	135081	134486	135237		
As 188.980	54.1085	53.4131	47.2896		

<b>Label</b>	<b>Replicates Concentration</b>			
B 249.678	0.2127u	1.3583u	1.1093u	
Ba 389.178	493.496	490.511	496.024	
Be 313.042	3.9177	3.8857	3.9153	
Ca 370.602	95254	94518	94876	
Cd 226.502	-1.1661	-1.2236	-1.1927	
Co 228.615	39.0255	37.6693	37.1807	
Cr 267.716	193.325	191.780	192.404	
Cu 324.754	86.9220	87.6846	85.8052	
Fe 271.441	192020	191868	193454	
K 766.491	4659.30	4665.88	4685.83	
Mg 279.078	38755.4	38473.1	38613.8	
Mn 257.610	1988.94	1981.78	1988.36	
Mo 202.032	7.0486	6.4881	5.6668	
Na 330.237	-199.401u	-315.585u	-310.130u	
Ni 231.604	47.3718	47.3799	44.5671	
Pb 220.353	120.102	116.782	118.279	
Sb 206.834	-13.7835u	-9.0129u	-7.5877u	
Se 196.026	19.0810	10.6826	2.6202	
Sn 189.925	16.8327	18.6065	16.4825	
Sr 216.596	55.5123	54.8122	55.2145	
Ti 334.941	907.523	893.996	905.883	
Tl 190.794	9.1848u	5.4814u	6.5107u	
V 292.401	265.468	263.617	264.977	
Zn 206.200	197.036	196.770	198.886	

<b>Label</b>	<b>Sol'n Conc.</b>	<b>Units</b>	<b>SD</b>	<b>%RSD</b>	<b>Int. (c/s)</b>
Ag 328.068	-2.2680	ppb	0.0509	2.2	-230.477
Al 308.215	134935	ppb	396.658	0.3	1148266
As 188.980	51.6037	ppb	3.7523	7.3	46.2484
B 249.678	0.8934	ppb	0.6025	67.4	-400.772
Ba 389.178	493.344	ppb	2.7600	0.6	16338.7
Be 313.042	3.9062	ppb	0.0178	0.5	9803.53
Ca 370.602	94883	ppb	368.0	0.4	520130
Cd 226.502	-1.1941	ppb	0.0288	2.4	1130.11
Co 228.615	37.9585	ppb	0.9558	2.5	704.603
Cr 267.716	192.503	ppb	0.7774	0.4	15706.8
Cu 324.754	86.8039	ppb	0.9453	1.1	6196.03
Fe 271.441	192447	ppb	874.781	0.5	519782
K 766.491	4670.33	ppb	13.8139	0.3	289236
Mg 279.078	38614.1	ppb	141.147	0.4	202791
Mn 257.610	1986.36	ppb	3.9767	0.2	674823
Mo 202.032	6.4012	ppb	0.6950	10.9	73.1935
Na 330.237	-275.039	ppb	65.5609	23.8	80.6823
Ni 231.604	46.4396	ppb	1.6216	3.5	257.751
Pb 220.353	118.387	ppb	1.6628	1.4	475.594
Sb 206.834	-10.1280	ppb	3.2449	32.0	22.2955
Se 196.026	10.7946	ppb	8.2310	76.3	-2.1731
Sn 189.925	17.3072	ppb	1.1387	6.6	-2.2240
Sr 216.596	55.1797	ppb	0.3514	0.6	1847.98
Ti 334.941	902.467	ppb	7.3821	0.8	298350
Tl 190.794	7.0590	ppb	1.9116	27.1	-65.1884
V 292.401	264.687	ppb	0.9589	0.4	10106.8
Zn 206.200	197.564	ppb	1.1525	0.6	592.945

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680-115767-a-11-a (Samp)	8/19/2015, 7:39:32 PM	Rack 1, Tube 54
Weight: 1	Volume: 1	Dilution: 1
Label	Replicates	Concentration
Ag 328.068	-1.9648u	-1.9445u
Al 308.215	137659	137648
As 188.980	45.0182	47.7403
B 249.678	0.6527u	0.4333u
Ba 389.178	396.137	396.611
Be 313.042	3.5504	3.5698
Ca 370.602	95200	95282
Cd 226.502	-1.2520	-1.2294
Co 228.615	36.7486	37.1779
Cr 267.716	176.573	176.879
Cu 324.754	86.0577	88.5455
Fe 271.441	189727	191183
K 766.491	4432.25	4442.05
Mg 279.078	55713.0	55887.0
Mn 257.610	1603.18	1614.24
Mo 202.032	6.3545	6.8987
Na 330.237	-238.226u	-219.198u
Ni 231.604	48.3054	46.7802
Pb 220.353	120.630	124.342
Sb 206.834	-8.0213u	-8.6237u
Se 196.026	11.5216	7.8250
Sn 189.925	18.0889	22.1385
Sr 216.596	60.0630	60.2324
Ti 334.941	874.622	880.972
Tl 190.794	8.9509u	6.2986u
V 292.401	264.045	265.431
Zn 206.200	209.001	206.300
		205.366

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-1.8467	ppb	0.1873	10.1	-192.749
Al 308.215	137899	ppb	424.289	0.3	1173473
As 188.980	48.1212	ppb	3.3099	6.9	42.1532
B 249.678	0.9890	ppb	0.7802	78.9	-392.962
Ba 389.178	397.198	ppb	1.4473	0.4	13201.5
Be 313.042	3.5685	ppb	0.0174	0.5	8900.98
Ca 370.602	95369	ppb	225.7	0.2	522829
Cd 226.502	-1.2780	ppb	0.0655	5.1	1110.21
Co 228.615	36.5564	ppb	0.7366	2.0	676.038
Cr 267.716	177.066	ppb	0.6081	0.3	14454.4
Cu 324.754	88.1885	ppb	1.9766	2.2	6289.28
Fe 271.441	190240	ppb	817.934	0.4	513822
K 766.491	4445.22	ppb	14.8150	0.3	275320
Mg 279.078	55861.0	ppb	136.836	0.2	293410
Mn 257.610	1611.10	ppb	6.9062	0.4	547797
Mo 202.032	6.4135	ppb	0.4586	7.2	73.4413
Na 330.237	-319.181	ppb	156.985	49.2	77.8851
Ni 231.604	47.1713	ppb	0.9977	2.1	261.478
Pb 220.353	122.443	ppb	1.8575	1.5	488.163
Sb 206.834	-7.1593	ppb	2.0370	28.5	27.0101
Se 196.026	9.3667	ppb	1.9231	20.5	-3.4128
Sn 189.925	20.6034	ppb	2.1953	10.7	3.1197
Sr 216.596	60.2037	ppb	0.1287	0.2	1959.98

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Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ti 334.941	878.168	ppb	3.2397	0.4	290354
Tl 190.794	7.5319	ppb	1.3358	17.7	-64.3031
V 292.401	265.047	ppb	0.8761	0.3	10121.5
Zn 206.200	206.889	ppb	1.8879	0.9	621.057

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 Weight: 1      Volume: 1      Dilution: 1

Label	Replicates	Concentration				
Ag 328.068	-2.1826u	-2.6382u	-2.6939u			
Al 308.215	105540	105473	106547			
As 188.980	58.5212	47.8768	51.3461			
B 249.678	1.9484u	-0.0735u	1.0304u			
Ba 389.178	461.905	463.277	466.537			
Be 313.042	4.8490	4.8519	4.8819			
Ca 370.602	110217	110390	111095			
Cd 226.502	-1.2901	-1.3406	-1.2590			
Co 228.615	34.0487	34.8700	36.1796			
Cr 267.716	149.351	148.642	150.105			
Cu 324.754	89.2844	87.6445	89.4886			
Fe 271.441	209357	209238	211206			
K 766.491	6170.56	6187.21	6234.83			
Mg 279.078	63807.4	63747.2	64342.3			
Mn 257.610	2130.51	2130.53	2151.55			
Mo 202.032	5.3319	4.7025	4.9274			
Na 330.237	-578.180u	-505.058u	-437.272u			
Ni 231.604	46.4525	44.6378	45.9942			
Pb 220.353	109.420	106.507	108.205			
Sb 206.834	-6.4084u	-6.3187u	-7.9600u			
Se 196.026	6.7596	5.7677	3.6942			
Sn 189.925	19.5922	18.9346	16.9790			
Sr 216.596	72.1435	71.4953	72.5726			
Ti 334.941	697.030	700.225	709.495			
Tl 190.794	10.9291u	9.8850u	12.5646u			
V 292.401	240.296	239.855	241.631			
Zn 206.200	263.015	260.864	265.886			

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-2.5049	ppb	0.2805	11.2	-256.853
Al 308.215	105854	ppb	601.502	0.6	900954
As 188.980	52.5814	ppb	5.4287	10.3	47.2031
B 249.678	0.9685	ppb	1.0123	104.5	-446.058
Ba 389.178	463.907	ppb	2.3791	0.5	15441.2
Be 313.042	4.8609	ppb	0.0182	0.4	12355.0
Ca 370.602	110567	ppb	464.6	0.4	606155
Cd 226.502	-1.2966	ppb	0.0412	3.2	1227.19
Co 228.615	35.0328	ppb	1.0747	3.1	638.725
Cr 267.716	149.366	ppb	0.7319	0.5	12224.6
Cu 324.754	88.8059	ppb	1.0109	1.1	6339.40
Fe 271.441	209934	ppb	1103.61	0.5	566994
K 766.491	6197.53	ppb	33.3543	0.5	383643
Mg 279.078	63965.6	ppb	327.581	0.5	335990
Mn 257.610	2137.53	ppb	12.1451	0.6	726460
Mo 202.032	4.9873	ppb	0.3190	6.4	593292

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Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Na 330.237	-506.837	ppb	70.4708	13.9	54.0836
Ni 231.604	45.6948	ppb	0.9436	2.1	255.407
Pb 220.353	108.044	ppb	1.4636	1.4	446.035
Sb 206.834	-6.8957	ppb	0.9228	13.4	26.6083
Se 196.026	5.4072	ppb	1.5642	28.9	-6.4381
Sn 189.925	18.5019	ppb	1.3593	7.3	-0.2875
Sr 216.596	72.0705	ppb	0.5423	0.8	2289.24
Ti 334.941	702.250	ppb	6.4745	0.9	232237
Tl 190.794	11.1262	ppb	1.3506	12.1	-60.3010
V 292.401	240.594	ppb	0.9249	0.4	9185.44
Zn 206.200	263.255	ppb	2.5198	1.0	790.441

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Rack 1, Tube 56

Weight: 1

Volume: 1

Dilution: 1

Label	Replicates	Concentration			
Ag 328.068	0.4131	0.0584	-0.1962u		
Al 308.215	3.6853	-0.3787u	3.2655		
As 188.980	2.5325	-5.3165u	-0.2077u		
B 249.678	0.6729	0.6588	1.0882		
Ba 389.178	1.8129	2.0045	2.1382		
Be 313.042	-0.0011u	0.0055	-0.0065u		
Ca 370.602	24.98	23.18	26.56		
Cd 226.502	0.4105	0.4588	0.4854		
Co 228.615	-0.1810u	0.1518	0.5011		
Cr 267.716	0.2366	0.3196	0.1690		
Cu 324.754	-0.4090u	0.2421	1.1469		
Fe 271.441	15.0794	10.8740	14.0310		
K 766.491	9.4943	9.5348	10.2059		
Mg 279.078	-0.7173u	0.1932	-1.1799u		
Mn 257.610	0.5065	0.5043	0.5837		
Mo 202.032	1.0320	0.3350	0.9555		
Na 330.237	63.7476	-66.8485u	36.5479		
Ni 231.604	2.0968	1.5454	0.6746		
Pb 220.353	-1.1639u	0.6074	-2.6150u		
Sb 206.834	-3.0668u	-3.4045u	-5.6494u		
Se 196.026	-5.5896u	-1.4327u	1.3476		
Sn 189.925	11.0856	13.6120	9.9756		
Sr 216.596	0.1854	0.0469	0.5909		
Ti 334.941	0.3214	0.4541	0.3381		
Tl 190.794	1.8295	-0.4920u	1.6811		
V 292.401	0.2404	0.0855	-0.1641u		
Zn 206.200	2.4819	2.4408	2.3879		

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	0.0918	ppb	0.3060	333.5	20.2049
Al 308.215	2.1907	ppb	2.2351	102.0	709.959
As 188.980	-0.9972	ppb	3.9836	399.5	-13.7591
B 249.678	0.8067	ppb	0.2439	30.2	111.037
Ba 389.178	1.9852	ppb	0.1635	8.2	-147.108
Be 313.042	-0.0007	ppb	0.0060	843.8	-713.514
Ca 370.602	24.91	ppb	1.692	6.8	102.5
Cd 226.502	0.4516	ppb	0.0380	8.4	131.021
Co 228.615	0.1573	ppb	0.3411	216.8	68.3183

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<b>Label</b>	<b>Sol'n Conc.</b>	<b>Units</b>	<b>SD</b>	<b>%RSD</b>	<b>Int. (c/s)</b>
Cr 267.716	0.2417	ppb	0.0754	31.2	62.9893
Cu 324.754	0.3267	ppb	0.7814	239.2	243.926
Fe 271.441	13.3281	ppb	2.1890	16.4	191.241
K 766.491	9.7450	ppb	0.3997	4.1	1131.36
Mg 279.078	-0.5680	ppb	0.6986	123.0	106.724
Mn 257.610	0.5315	ppb	0.0452	8.5	217.308
Mo 202.032	0.7742	ppb	0.3823	49.4	34.5411
Na 330.237	11.1492	ppb	68.9033	618.0	183.620
Ni 231.604	1.4389	ppb	0.7171	49.8	-1.7662
Pb 220.353	-1.0572	ppb	1.6139	152.7	59.0796
Sb 206.834	-4.0402	ppb	1.4038	34.7	33.3548
Se 196.026	-1.8916	ppb	3.4913	184.6	-11.3501
Sn 189.925	11.5578	ppb	1.8636	16.1	-11.5440
Sr 216.596	0.2744	ppb	0.2827	103.0	65.2505
Ti 334.941	0.3712	ppb	0.0723	19.5	127.720
Tl 190.794	1.0062	ppb	1.2996	129.2	-49.3570
V 292.401	0.0539	ppb	0.2041	378.4	-26.8298
Zn 206.200	2.4368	ppb	0.0471	1.9	8.9676

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Rack 1, Tube 57

Weight: 1

Volume: 1

Dilution: 1

<b>Label</b>	<b>Replicates</b>	<b>Concentration</b>
Ag 328.068	45.8773	47.6090
Al 308.215	4580.89	4687.07
As 188.980	97.9883	100.736
B 249.678	177.293	182.408
Ba 389.178	95.3785	97.0533
Be 313.042	48.6742	49.7359
Ca 370.602	4811	4936
Cd 226.502	49.2054	50.1845
Co 228.615	49.4584	51.0148
Cr 267.716	96.6710	99.3065
Cu 324.754	97.6281	100.003
Fe 271.441	4594.11	4711.19
K 766.491	4719.75	4824.18
Mg 279.078	4524.54	4620.76
Mn 257.610	473.195	484.171
Mo 202.032	94.4280	96.4739
Na 330.237	4458.85	4770.58
Ni 231.604	95.2522	96.4105
Pb 220.353	457.548	471.354
Sb 206.834	49.2855	48.8787
Se 196.026	98.2374	93.3138
Sn 189.925	196.180	199.978
Sr 216.596	93.1653	94.7685
Ti 334.941	94.2837	96.2620
Tl 190.794	38.4313	43.0896
V 292.401	95.0488	97.1276
Zn 206.200	95.9585	98.7960
		95.2013

<b>Label</b>	<b>Sol'n Conc.</b>	<b>Units</b>	<b>SD</b>	<b>%RSD</b>	<b>Int. (c/s)</b>
Ag 328.068	47.1971	ppb	1.1696	2.5	4489.01
Al 308.215	4633.62	ppb	53.0955	1.1	40115.0

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<b>Label</b>	<b>Sol'n Conc.</b>	<b>Units</b>	<b>SD</b>	<b>%RSD</b>	<b>Int. (c/s)</b>
As 188.980	98.0846	ppb	2.6045	2.7	103.362
B 249.678	180.491	ppb	2.7877	1.5	3573.95
Ba 389.178	96.5704	ppb	1.0383	1.1	2994.07
Be 313.042	49.2144	ppb	0.5311	1.1	130804
Ca 370.602	4869	ppb	63.21	1.3	26845
Cd 226.502	49.7193	ppb	0.4914	1.0	4506.49
Co 228.615	50.2654	ppb	0.7798	1.6	919.815
Cr 267.716	97.9124	ppb	1.3244	1.4	7967.32
Cu 324.754	99.9732	ppb	2.3305	2.3	7022.00
Fe 271.441	4648.23	ppb	59.0347	1.3	12716.3
K 766.491	4775.08	ppb	52.4926	1.1	295711
Mg 279.078	4569.20	ppb	48.4783	1.1	24091.5
Mn 257.610	478.434	ppb	5.5050	1.2	162315
Mo 202.032	95.5339	ppb	1.0330	1.1	892.719
Na 330.237	4549.38	ppb	192.617	4.2	560.634
Ni 231.604	95.8051	ppb	0.5809	0.6	504.670
Pb 220.353	464.661	ppb	6.9121	1.5	1572.19
Sb 206.834	46.2025	ppb	4.9917	10.8	116.523
Se 196.026	93.1397	ppb	5.1868	5.6	62.7263
Sn 189.925	198.832	ppb	2.3043	1.2	292.062
Sr 216.596	93.9944	ppb	0.8030	0.9	2267.24
Ti 334.941	95.2490	ppb	0.9900	1.0	31491.2
Tl 190.794	40.7723	ppb	2.3292	5.7	24.3560
V 292.401	96.2147	ppb	1.0623	1.1	3626.01
Zn 206.200	96.6520	ppb	1.8950	2.0	290.898

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Rack 1, Tube 58

Weight: 1

Volume: 1

Dilution: 1

<b>Label</b>	<b>Replicates</b>	<b>Concentration</b>
Ag 328.068	-2.0909u	-1.7337u
Al 308.215	162685	162309
As 188.980	57.0775	55.4015
B 249.678	8.0176u	8.6885u
Ba 389.178	704.303	703.489
Be 313.042	5.7905	5.7960
Ca 370.602	1020	1023
Cd 226.502	-1.7977	-1.9298
Co 228.615	38.9360	40.0829
Cr 267.716	128.154	128.289
Cu 324.754	127.438	125.628
Fe 271.441	231029	229722
K 766.491	23366.9	23268.4
Mg 279.078	6058.79	6048.49
Mn 257.610	813.041	811.447
Mo 202.032	5.7274	7.2751
Na 330.237	-279.363u	-250.814u
Ni 231.604	56.6065	58.9442
Pb 220.353	84.2789	82.7057
Sb 206.834	-13.0669u	-16.2016u
Se 196.026	11.7471	7.6729
Sn 189.925	16.8770	15.4927
Sr 216.596	59.5433	58.6284
Ti 334.941	670.575	672.737

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Label	Replicates Concentration			
Tl 190.794	10.7453u	12.9486u	9.4258u	
V 292.401	210.326	209.252	211.858	
Zn 206.200	184.283	184.470	187.380	

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-1.9551	ppb	0.1933	9.9	-214.313
Al 308.215	163041	ppb	960.173	0.6	1387286
As 188.980	56.7730	ppb	1.2475	2.2	51.9149
B 249.678	8.1185	ppb	0.5269	6.5	-364.657
Ba 389.178	706.063	ppb	3.7761	0.5	23320.5
Be 313.042	5.8140	ppb	0.0360	0.6	14856.7
Ca 370.602	1020	ppb	1.966	0.2	604.7
Cd 226.502	-1.7912	ppb	0.1419	7.9	1308.99
Co 228.615	39.9091	ppb	0.8989	2.3	733.045
Cr 267.716	128.816	ppb	1.0320	0.8	10562.4
Cu 324.754	127.883	ppb	2.5074	2.0	9004.84
Fe 271.441	231218	ppb	1598.11	0.7	624463
K 766.491	23426.4	ppb	194.793	0.8	1448684
Mg 279.078	6076.40	ppb	39.7552	0.7	31880.9
Mn 257.610	814.798	ppb	4.4946	0.6	277421
Mo 202.032	6.7434	ppb	0.8802	13.1	73.9616
Na 330.237	-299.719	ppb	61.6576	20.6	62.7683
Ni 231.604	57.9897	ppb	1.2264	2.1	323.396
Pb 220.353	84.0185	ppb	1.2039	1.4	369.417
Sb 206.834	-13.1112	ppb	3.0685	23.4	15.4788
Se 196.026	11.1972	ppb	3.2841	29.3	-2.6114
Sn 189.925	16.2755	ppb	0.7098	4.4	-3.8967
Sr 216.596	59.4590	ppb	0.7918	1.3	2048.32
Ti 334.941	674.313	ppb	4.7277	0.7	222894
Tl 190.794	11.0399	ppb	1.7798	16.1	-64.9583
V 292.401	210.479	ppb	1.3098	0.6	8030.74
Zn 206.200	185.378	ppb	1.7363	0.9	556.902

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 Weight: 1    Volume: 1    Dilution: 1

Label	Replicates Concentration		
Ag 328.068	-0.7880u	0.0392u	0.0063u
Al 308.215	36948.8	35187.3	35605.1
As 188.980	13.3805	10.5032	13.8456
B 249.678	2.2307u	2.0798u	2.2580u
Ba 389.178	160.228	153.928	155.055
Be 313.042	1.2674	1.2193	1.2419
Ca 370.602	234.6	230.4	235.6
Cd 226.502	-0.0533	-0.0007	0.1253
Co 228.615	9.6375	9.0407	9.0524
Cr 267.716	28.5629	27.0683	27.5034
Cu 324.754	30.1557	29.1444	27.5104
Fe 271.441	52840.4	50254.0	50900.1
K 766.491	5386.28	5128.51	5197.36
Mg 279.078	1379.44	1308.91	1328.64
Mn 257.610	183.709	174.397	176.604
Mo 202.032	1.8232	1.8706	1.5895
Na 330.237	-206.667u	-146.983u	-43.5354u

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Label	Replicates Concentration		
Ni 231.604	14.3580	12.2063	13.3356
Pb 220.353	16.6258	16.6500	18.0765
Sb 206.834	-1.2033u	-6.5974u	-8.4402u
Se 196.026	6.5853	2.9678	-2.9934u
Sn 189.925	3.6572	1.8982	5.7494
Sr 216.596	13.2746	12.3044	13.1297
Ti 334.941	150.030	144.290	145.588
Tl 190.794	1.3735u	0.7268u	1.6559u
V 292.401	47.9081	45.4999	46.5263
Zn 206.200	40.8629	40.3135	41.5546

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.2475	ppb	0.4684	189.2	-20.9268
Al 308.215	35913.7	ppb	920.454	2.6	306123
As 188.980	12.5764	ppb	1.8105	14.4	1.7064
B 249.678	2.1895	ppb	0.0960	4.4	0.7589
Ba 389.178	156.404	ppb	3.3599	2.1	5000.34
Be 313.042	1.2429	ppb	0.0241	1.9	2616.77
Ca 370.602	233.5	ppb	2.725	1.2	142.7
Cd 226.502	0.0238	ppb	0.0918	386.1	398.793
Co 228.615	9.2435	ppb	0.3412	3.7	114.659
Cr 267.716	27.7115	ppb	0.7687	2.8	2306.97
Cu 324.754	28.9369	ppb	1.3348	4.6	2208.74
Fe 271.441	51331.5	ppb	1346.11	2.6	138755
K 766.491	5237.38	ppb	133.463	2.5	324289
Mg 279.078	1339.00	ppb	36.3894	2.7	7110.87
Mn 257.610	178.237	ppb	4.8659	2.7	60718.4
Mo 202.032	1.7611	ppb	0.1505	8.5	40.2271
Na 330.237	-132.395	ppb	82.5384	62.3	150.565
Ni 231.604	13.3000	ppb	1.0763	8.1	66.7009
Pb 220.353	17.1174	ppb	0.8307	4.9	125.672
Sb 206.834	-5.4136	ppb	3.7609	69.5	30.4351
Se 196.026	2.1866	ppb	4.8369	221.2	-8.4993
Sn 189.925	3.7683	ppb	1.9280	51.2	-24.1723
Sr 216.596	12.9029	ppb	0.5233	4.1	493.581
Ti 334.941	146.636	ppb	3.0100	2.1	48474.8
Tl 190.794	1.2521	ppb	0.4763	38.0	-56.4973
V 292.401	46.6448	ppb	1.2085	2.6	1757.32
Zn 206.200	40.9103	ppb	0.6219	1.5	124.196

680-115767-a-22-aPDS (Samp)    8/19/2015, 8:07:05 PM    Rack 1, Tube 60  
 Weight: 1    Volume: 1    Dilution: 1

Label	Replicates Concentration		
Ag 328.068	59.7981	58.6262	58.5951
Al 308.215	161717	161626	164570
As 188.980	155.517	153.616	154.203
B 249.678	181.567	181.856	183.627
Ba 389.178	785.437	783.233	800.248
Be 313.042	97.7467	97.5051	99.4565
Ca 370.602	10243	10198	10364
Cd 226.502	88.0989	87.5400	89.8657
Co 228.615	127.767	129.560	135.757
Cr 267.716	220.782	219.937	224.870

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Label	Replicates	Concentration	
Cu 324.754	233.713	233.501	231.134
Fe 271.441	235748	235137	240828
K 766.491	32072.8	32045.3	32716.2
Mg 279.078	14793.4	14753.0	15071.7
Mn 257.610	1702.41	1701.32	1722.23
Mo 202.032	97.9889	97.2745	98.3438
Na 330.237	8060.12	7987.92	8180.56
Ni 231.604	150.424	148.247	149.451
Pb 220.353	173.964	173.730	177.955
Sb 206.834	87.6601	87.2713	84.4400
Se 196.026	109.300	102.596	113.849
Sn 189.925	110.082	103.665	106.635
Sr 216.596	147.376	147.273	150.198
Ti 334.941	756.425	752.646	769.754
Tl 190.794	29.1670	35.2408	31.7255
V 292.401	300.849	300.247	306.149
Zn 206.200	271.261	271.940	277.225

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	59.0065	ppb	0.6858	1.2	5571.64
Al 308.215	162638	ppb	1673.94	1.0	1383875
As 188.980	154.446	ppb	0.9731	0.6	167.354
B 249.678	182.350	ppb	1.1151	0.6	2989.56
Ba 389.178	789.639	ppb	9.2534	1.2	26109.3
Be 313.042	98.2361	ppb	1.0637	1.1	261848
Ca 370.602	10269	ppb	85.75	0.8	51647
Cd 226.502	88.5015	ppb	1.2140	1.4	9314.18
Co 228.615	131.028	ppb	4.1929	3.2	2531.47
Cr 267.716	221.863	ppb	2.6383	1.2	18095.7
Cu 324.754	232.783	ppb	1.4316	0.6	16140.5
Fe 271.441	237238	ppb	3124.23	1.3	640734
K 766.491	32278.1	ppb	379.623	1.2	1995869
Mg 279.078	14872.7	ppb	173.517	1.2	78056.6
Mn 257.610	1708.65	ppb	11.7718	0.7	580594
Mo 202.032	97.8691	ppb	0.5446	0.6	899.125
Na 330.237	8076.20	ppb	97.3191	1.2	759.709
Ni 231.604	149.374	ppb	1.0906	0.7	813.800
Pb 220.353	175.217	ppb	2.3743	1.4	666.672
Sb 206.834	86.4571	ppb	1.7577	2.0	180.456
Se 196.026	108.582	ppb	5.6608	5.2	73.4463
Sn 189.925	106.794	ppb	3.2113	3.0	142.854
Sr 216.596	148.282	ppb	1.6598	1.1	4139.65
Ti 334.941	759.609	ppb	8.9874	1.2	251099
Tl 190.794	32.0444	ppb	3.0494	9.5	-25.7153
V 292.401	302.415	ppb	3.2477	1.1	11523.0
Zn 206.200	273.476	ppb	3.2649	1.2	820.511

Cont Calib Verif (CCV)      8/19/2015, 8:11:41 PM      Rack 2, Tube 1  
 Weight: 1      Volume: 1      Dilution: 1

Label	Replicates	Concentration	
Ag 328.068	484.773	510.952	521.318
Al 308.215	4836.66	4832.24	4884.18
As 188.980	494.418	493.695	483.366

Label	Replicates	Concentration					
B 249.678	471.597	471.170	479.656				
Ba 389.178	4878.24	4866.93	4936.42				
Be 313.042	481.872	482.549	486.460				
Ca 370.602	5126	5099	5168				
Cd 226.502	489.257	488.110	492.805				
Co 228.615	485.733	485.090	488.962				
Cr 267.716	4952.33	4941.71	4984.44				
Cu 324.754	4937.71	5170.18	5259.64				
Fe 271.441	4782.14	4786.79	4830.16				
K 766.491	9827.75	9789.06	9900.03				
Mg 279.078	4808.60	4797.61	4847.66				
Mn 257.610	4865.17	4853.96	4902.42				
Mo 202.032	490.066	489.935	494.069				
Na 330.237	7079.59	6899.68	7062.82				
Ni 231.604	2414.03	2411.52	2432.00				
Pb 220.353	491.231	488.680	492.212				
Sb 206.834	980.947	987.789	996.933				
Se 196.026	4794.69	4811.57	4854.54				
Sn 189.925	4955.96	4912.14	4919.73				
Sr 216.596	2419.66	2421.25	2438.57				
Ti 334.941	479.308	478.839	483.662				
Tl 190.794	4892.08	4905.58	4967.89				
V 292.401	4826.57	4825.42	4873.89				
Zn 206.200	2437.37	2435.43	2453.84				

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)	QC Value	
Ag 328.068	505.681	ppb	18.8340	3.7	47948.0	101.13615	
Al 308.215	4851.03	ppb	28.7961	0.6	42620.6	97.02055	
As 188.980	490.493	ppb	6.1829	1.3	567.412	98.09865	
B 249.678	474.141	ppb	4.7809	1.0	9267.51	94.82823	
Ba 389.178	4893.86	ppb	37.2866	0.8	161533	97.87730	
Be 313.042	483.627	ppb	2.4768	0.5	1292082	96.72533	
Ca 370.602	5131	ppb	35.14	0.7	28914	102.61819	
Cd 226.502	490.057	ppb	2.4476	0.5	43368.2	98.01138	
Co 228.615	486.595	ppb	2.0751	0.4	9546.51	97.31893	
Cr 267.716	4959.49	ppb	22.2473	0.4	401184	99.18981	
Cu 324.754	5122.51	ppb	166.173	3.2	348405	102.45022	
Fe 271.441	4799.69	ppb	26.4842	0.6	13295.2	95.99390	
K 766.491	9838.95	ppb	56.3272	0.6	608745	98.38948	
Mg 279.078	4817.96	ppb	26.3077	0.5	25222.4	96.35915	
Mn 257.610	4873.85	ppb	25.3705	0.5	1652475	97.47703	
Mo 202.032	491.357	ppb	2.3499	0.5	4472.31	98.27133	
Na 330.237	7014.03	ppb	99.3830	1.4	763.299	93.52042	
Ni 231.604	2419.18	ppb	11.1721	0.5	12966.1	96.76733	
Pb 220.353	490.707	ppb	1.8231	0.4	1660.21	98.14149	
Sb 206.834	988.556	ppb	8.0206	0.8	1754.18	98.85564	
Se 196.026	4820.27	ppb	30.8591	0.6	3741.71	96.40536	
Sn 189.925	4929.28	ppb	23.4161	0.5	7960.90	98.58554	
Sr 216.596	2426.49	ppb	10.4881	0.4	56796.5	97.05959	
Ti 334.941	480.603	ppb	2.6596	0.6	158837	96.12059	
Tl 190.794	4921.85	ppb	40.4379	0.8	9092.59	98.43701	
V 292.401	4841.96	ppb	27.6568	0.6	185024	96.83926	
Zn 206.200	2442.21	ppb	10.1153	0.4	7289.59	97.68844	

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Cont Calib Blank (CCB)	8/19/2015, 8:16:16 PM		Rack 2, Tube 2
Weight: 1	Volume: 1		Dilution: 1
Label	Replicates	Concentration	
Ag 328.068	0.6226	-0.4536u	-0.4105u
Al 308.215	-18.5080u	-11.5697u	-16.5316u
As 188.980	2.1303	-1.1571u	-1.3851u
B 249.678	4.4841	3.9903	3.5761
Ba 389.178	1.4626	1.3312	1.4039
Be 313.042	0.0106	0.0025	-0.0025u
Ca 370.602	4.966	8.739	-1.828u
Cd 226.502	0.2820	0.4776	0.4816
Co 228.615	0.6383	0.2564	0.6106
Cr 267.716	-0.0266u	-0.1681u	-0.1935u
Cu 324.754	0.5744	0.6262	0.1532
Fe 271.441	-3.5383u	-5.1149u	-8.2274u
K 766.491	-0.1894u	-0.1824u	-0.2501u
Mg 279.078	-2.8206u	-1.2619u	-2.8655u
Mn 257.610	0.0009	0.0052	-0.0170u
Mo 202.032	-0.0193u	-0.2204u	0.1089
Na 330.237	-62.7105u	71.0789	-87.3958u
Ni 231.604	0.5543	2.5940	0.2123
Pb 220.353	-1.4640u	0.8576	-3.1140u
Sb 206.834	-7.1673u	-5.8164u	-5.3431u
Se 196.026	-8.7590u	3.9868	1.9169
Sn 189.925	-0.3218u	-0.9350u	-1.9787u
Sr 216.596	-0.1595u	0.4143	0.3995
Ti 334.941	0.0863	-0.0020u	0.1465
Tl 190.794	2.6209	0.4726	1.9204
V 292.401	0.2298	0.1638	0.2469
Zn 206.200	0.7596	0.1028	-0.1455u

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)	QC Value
Ag 328.068	-0.0805	ppb	0.6093	757.0	3.8668	-0.08048
Al 308.215	-15.5365	ppb	3.5746	23.0	559.169	-15.53646
As 188.980	-0.1373	ppb	1.9671	1432.7	-12.7408	-0.13730
B 249.678	4.0169	ppb	0.4546	11.3	173.207	4.01686
Ba 389.178	1.3992	ppb	0.0658	4.7	-166.499	1.39921
Be 313.042	0.0035	ppb	0.0066	188.0	-701.984	0.00353
Ca 370.602	3.959	ppb	5.355	135.2	-13.01	3.95932
Cd 226.502	0.4137	ppb	0.1141	27.6	127.558	0.41373
Co 228.615	0.5018	ppb	0.2129	42.4	-61.4578	0.50179
Cr 267.716	-0.1294	ppb	0.0899	69.5	32.9534	-0.12940
Cu 324.754	0.4513	ppb	0.2594	57.5	252.355	0.45129
Fe 271.441	-5.6269	ppb	2.3861	42.4	140.149	-5.62689
K 766.491	-0.2073	ppb	0.0372	18.0	516.134	-0.20731
Mg 279.078	-2.3160	ppb	0.9132	39.4	97.5751	-2.31600
Mn 257.610	-0.0036	ppb	0.0118	323.3	35.7453	-0.00365
Mo 202.032	-0.0436	ppb	0.1660	380.5	27.1320	-0.04363
Na 330.237	-26.3426	ppb	85.2674	323.7	180.500	-26.34262
Ni 231.604	1.1202	ppb	1.2877	115.0	-3.4801	1.12020
Pb 220.353	-1.2401	ppb	1.9953	160.9	58.4847	-1.24012
Sb 206.834	-6.1089	ppb	0.9466	15.5	29.9314	-6.10893
Se 196.026	-0.9518	ppb	6.8400	718.7	-10.6191	-0.95176
Sn 189.925	-1.0785	ppb	0.8377	77.7	-32.0294	-1.07850
Sr 216.596	0.2181	ppb	0.3271	150.0	63.9252	0.21809

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<b>Label</b>	<b>Sol'n Conc.</b>	<b>Units</b>	<b>SD</b>	<b>%RSD</b>	<b>Int. (c/s)</b>	<b>QC Value</b>
Ti 334.941	0.0769	ppb	0.0747	97.1	30.4656	0.07693
Tl 190.794	1.6713	ppb	1.0956	65.6	-48.1162	1.67132
V 292.401	0.2135	ppb	0.0438	20.5	-20.4552	0.21350
Zn 206.200	0.2390	ppb	0.4677	195.7	2.3745	0.23895

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## Rack 2, Tube 3

**Weight:** 1

Volume: 1

## Dilution: 1

Label	Replicates	Concentration	
Ag 328.068	47.2910	43.1922	45.4336
Al 308.215	169595	162003	161862
As 188.980	156.697	149.398	153.084
B 249.678	119.154	115.163	117.187
Ba 389.178	773.254	740.980	740.289
Be 313.042	57.0164	54.4716	54.2995
Ca 370.602	5878	5609	5606
Cd 226.502	48.7086	46.1611	45.9126
Co 228.615	89.6296	84.0584	82.7098
Cr 267.716	249.122	237.156	236.225
Cu 324.754	228.200	209.701	214.932
Fe 271.441	232627	225958	224940
K 766.491	26454.5	25337.2	25224.4
Mg 279.078	10849.6	10346.7	10330.7
Mn 257.610	971.549	927.213	926.540
Mo 202.032	98.0767	93.0419	93.1619
Na 330.237	4466.45	4178.07	4097.10
Ni 231.604	154.389	145.992	147.226
Pb 220.353	553.401	534.883	530.910
Sb 206.834	23.5480	15.3644	23.0197
Se 196.026	104.920	94.1804	93.8800
Sn 189.925	206.127	201.000	196.122
Sr 216.596	173.361	164.276	164.130
Ti 334.941	754.725	715.425	715.295
Tl 190.794	45.4433	48.9999	49.8521
V 292.401	314.567	301.252	299.941
Zn 206.200	279.980	267.448	266.067

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	45.3056	ppb	2.0524	4.5	4268.18
Al 308.215	164487	ppb	4424.92	2.7	1399598
As 188.980	153.060	ppb	3.6498	2.4	165.825
B 249.678	117.168	ppb	1.9958	1.7	1753.15
Ba 389.178	751.508	ppb	18.8362	2.5	24831.1
Be 313.042	55.2625	ppb	1.5213	2.8	147000
Ca 370.602	5698	ppb	156.3	2.7	26566
Cd 226.502	46.9274	ppb	1.5476	3.3	5589.15
Co 228.615	85.4659	ppb	3.6684	4.3	1630.50
Cr 267.716	240.834	ppb	7.1922	3.0	19621.5
Cu 324.754	217.611	ppb	9.5359	4.4	15105.3
Fe 271.441	227842	ppb	4175.42	1.8	615358
K 766.491	25672.0	ppb	679.962	2.6	1587501
Mg 279.078	10509.0	ppb	295.076	2.8	55161.8
Mn 257.610	941.767	ppb	25.7942	2.7	320505
Mo 202.032	94.7601	ppb	2.8728	3.0	871.534

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Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Na 330.237	4247.21	ppb	194.137	4.6	443.750
Ni 231.604	149.202	ppb	4.5338	3.0	812.188
Pb 220.353	539.731	ppb	12.0038	2.2	1848.73
Sb 206.834	20.6440	ppb	4.5799	22.2	71.8270
Se 196.026	97.6601	ppb	6.2890	6.4	64.7233
Sn 189.925	201.083	ppb	5.0031	2.5	295.710
Sr 216.596	167.256	ppb	5.2881	3.2	4559.99
Ti 334.941	728.482	ppb	22.7276	3.1	240803
Tl 190.794	48.0984	ppb	2.3386	4.9	4.6389
V 292.401	305.254	ppb	8.0923	2.7	11631.0
Zn 206.200	271.165	ppb	7.6655	2.8	813.424

680-115767-a-22-e ms (Samp)

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Rack 2, Tube 4

Weight: 1

Volume: 1

Dilution: 1

Label	Replicates	Concentration
Ag 328.068	45.4347	43.1971
Al 308.215	158376	159679
As 188.980	147.990	148.794
B 249.678	112.359	113.481
Ba 389.178	708.126	712.246
Be 313.042	54.1854	54.4771
Ca 370.602	5565	5587
Cd 226.502	45.1708	45.8219
Co 228.615	86.0410	90.3891
Cr 267.716	233.520	234.322
Cu 324.754	230.570	216.526
Fe 271.441	232624	234247
K 766.491	25395.9	25428.8
Mg 279.078	10076.0	10133.7
Mn 257.610	1049.17	1056.25
Mo 202.032	92.0523	93.3343
Na 330.237	4304.14	4131.46
Ni 231.604	147.917	149.477
Pb 220.353	519.650	523.322
Sb 206.834	16.2121	23.8145
Se 196.026	103.660	90.0552
Sn 189.925	196.494	198.315
Sr 216.596	151.434	152.560
Ti 334.941	722.902	733.225
Tl 190.794	47.1549	52.4685
V 292.401	295.700	298.305
Zn 206.200	263.736	267.870

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	44.6889	ppb	1.2919	2.9	4209.44
Al 308.215	160370	ppb	2415.54	1.5	1364591
As 188.980	147.434	ppb	1.7075	1.2	159.082
B 249.678	114.052	ppb	2.0393	1.8	1672.87
Ba 389.178	716.109	ppb	10.4650	1.5	23666.7
Be 313.042	54.7566	ppb	0.7511	1.4	145647
Ca 370.602	5618	ppb	74.67	1.3	25957
Cd 226.502	46.0801	ppb	1.0621	2.3	5558.96
Co 228.615	88.7894	ppb	2.3908	2.7	1696.11

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<b>Label</b>	<b>Sol'n Conc.</b>	<b>Units</b>	<b>SD</b>	<b>%RSD</b>	<b>Int. (c/s)</b>
Cr 267.716	235.820	ppb	3.3131	1.4	19219.8
Cu 324.754	225.885	ppb	8.1053	3.6	15670.8
Fe 271.441	235429	ppb	3547.59	1.5	635844
K 766.491	25672.7	ppb	451.144	1.8	1587541
Mg 279.078	10187.6	ppb	146.149	1.4	53471.4
Mn 257.610	1061.24	ppb	15.1925	1.4	361041
Mo 202.032	93.6306	ppb	1.7455	1.9	860.844
Na 330.237	4264.52	ppb	118.334	2.8	442.139
Ni 231.604	149.847	ppb	2.1387	1.4	816.333
Pb 220.353	527.447	ppb	10.4873	2.0	1810.25
Sb 206.834	21.3359	ppb	4.4381	20.8	72.7536
Se 196.026	97.6095	ppb	6.9259	7.1	64.6732
Sn 189.925	198.837	ppb	2.6430	1.3	292.068
Sr 216.596	153.672	ppb	2.9540	1.9	4261.07
Ti 334.941	734.037	ppb	11.5619	1.6	242639
Tl 190.794	49.5361	ppb	2.6994	5.4	6.2569
V 292.401	299.532	ppb	4.5703	1.5	11412.7
Zn 206.200	268.525	ppb	5.1482	1.9	805.548

680-115767-a-24-a (Samp)

8/19/2015, 8:30:00 PM

Rack 2, Tube 5

Weight: 1

Volume: 1

Dilution: 1

<b>Label</b>	<b>Replicates</b>	<b>Concentration</b>
Ag 328.068	-1.4999u	-2.0722u
Al 308.215	80220.9	79133.8
As 188.980	25.2310	22.9951
B 249.678	3.0607u	3.0725u
Ba 389.178	1367.67	1351.96
Be 313.042	6.7952	6.7222
Ca 370.602	3529	3489
Cd 226.502	-1.1389	-1.2222
Co 228.615	68.5120	66.7884
Cr 267.716	61.6630	60.9163
Cu 324.754	339.882	322.489
Fe 271.441	151671	149891
K 766.491	4547.91	4500.17
Mg 279.078	3995.04	3945.32
Mn 257.610	3054.17	3018.15
Mo 202.032	2.2252	3.1536
Na 330.237	-261.678u	-460.937u
Ni 231.604	61.1217	61.6454
Pb 220.353	2611.65	2590.32
Sb 206.834	4.2548	-5.2729u
Se 196.026	13.7645	6.1066
Sn 189.925	13.3377	14.9376
Sr 216.596	59.2662	57.0802
Ti 334.941	345.414	339.951
Tl 190.794	10.0254u	8.3497u
V 292.401	82.9228	82.2523
Zn 206.200	208.473	206.146

<b>Label</b>	<b>Sol'n Conc.</b>	<b>Units</b>	<b>SD</b>	<b>%RSD</b>	<b>Int. (c/s)</b>
Ag 328.068	-1.8960	ppb	0.3438	18.1	-181.257
Al 308.215	79770.2	ppb	566.886	0.7	679106

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Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
As 188.980	26.9409	ppb	5.0239	18.6	17.5465
B 249.678	3.3162	ppb	0.4323	13.0	-243.659
Ba 389.178	1360.85	ppb	8.0576	0.6	44886.9
Be 313.042	6.7639	ppb	0.0376	0.6	17377.3
Ca 370.602	3514	ppb	21.95	0.6	16145
Cd 226.502	-1.1497	ppb	0.0678	5.9	889.510
Co 228.615	67.2417	ppb	1.1151	1.7	1264.05
Cr 267.716	61.3351	ppb	0.3816	0.6	5087.90
Cu 324.754	327.972	ppb	10.3252	3.1	22576.6
Fe 271.441	150973	ppb	949.975	0.6	407801
K 766.491	4527.43	ppb	24.5851	0.5	280402
Mg 279.078	3976.87	ppb	27.4273	0.7	20822.6
Mn 257.610	3041.44	ppb	20.1960	0.7	1031909
Mo 202.032	3.0287	ppb	0.7488	24.7	45.4630
Na 330.237	-319.524	ppb	123.141	38.5	93.8786
Ni 231.604	61.8046	ppb	0.7750	1.3	336.112
Pb 220.353	2603.99	ppb	11.8641	0.5	8544.18
Sb 206.834	-1.6462	ppb	5.1550	313.1	35.1390
Se 196.026	9.0663	ppb	4.1143	45.4	-2.7917
Sn 189.925	14.4783	ppb	0.9939	6.9	-6.8101
Sr 216.596	58.1171	ppb	1.0973	1.9	1809.11
Ti 334.941	342.432	ppb	2.7655	0.8	113200
Tl 190.794	8.4541	ppb	1.5218	18.0	-55.6899
V 292.401	82.7398	ppb	0.4265	0.5	3139.52
Zn 206.200	208.285	ppb	2.0522	1.0	626.207

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Rack 2, Tube 6

Weight: 1

Volume: 1

Dilution: 1

Label	Replicates	Concentration	
Ag 328.068	-4.1131u	-3.2083u	-3.7062u
Al 308.215	117241	116770	116067
As 188.980	48.9084	52.4018	56.7634
B 249.678	-1.5240u	-1.2390u	-2.3477u
Ba 389.178	614.756	613.044	608.768
Be 313.042	8.1377	8.1248	8.0682
Ca 370.602	2309	2307	2293
Cd 226.502	-1.8294	-2.0398	-2.2101
Co 228.615	42.4037	42.3337	42.2377
Cr 267.716	185.047	185.031	183.642
Cu 324.754	88.4044	87.1642	88.1348
Fe 271.441	265148	264486	263418
K 766.491	5825.80	5798.69	5779.71
Mg 279.078	3737.11	3722.89	3702.28
Mn 257.610	3863.00	3857.74	3831.79
Mo 202.032	4.8854	5.9287	4.4255
Na 330.237	-526.675u	-541.686u	-463.965u
Ni 231.604	51.9682	48.9446	50.8150
Pb 220.353	114.847	116.779	115.132
Sb 206.834	-10.6044u	-17.8747u	-14.7238u
Se 196.026	10.5139	12.4197	5.9420
Sn 189.925	21.4420	19.5423	20.1450
Sr 216.596	22.0655	21.9977	21.8939
Ti 334.941	601.500	600.643	595.689

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Label	Replicates Concentration			
Tl 190.794	16.2154u	12.3392u	10.8346u	
V 292.401	275.917	275.064	272.498	
Zn 206.200	170.329	170.100	165.188	

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-3.6758	ppb	0.4532	12.3	-365.046
Al 308.215	116693	ppb	590.665	0.5	993146
As 188.980	52.6912	ppb	3.9355	7.5	46.7004
B 249.678	-1.7036	ppb	0.5758	33.8	-643.615
Ba 389.178	612.190	ppb	3.0839	0.5	20240.0
Be 313.042	8.1103	ppb	0.0370	0.5	20993.0
Ca 370.602	2303	ppb	8.511	0.4	6967
Cd 226.502	-2.0264	ppb	0.1907	9.4	1487.12
Co 228.615	42.3250	ppb	0.0834	0.2	777.068
Cr 267.716	184.573	ppb	0.8063	0.4	15106.0
Cu 324.754	87.9011	ppb	0.6523	0.7	6299.24
Fe 271.441	264350	ppb	872.788	0.3	713924
K 766.491	5801.40	ppb	23.1630	0.4	359155
Mg 279.078	3720.76	ppb	17.5152	0.5	19418.1
Mn 257.610	3850.84	ppb	16.7111	0.4	1306842
Mo 202.032	5.0799	ppb	0.7702	15.2	56.7267
Na 330.237	-510.775	ppb	41.2274	8.1	31.5422
Ni 231.604	50.5759	ppb	1.5259	3.0	286.732
Pb 220.353	115.586	ppb	1.0429	0.9	480.293
Sb 206.834	-14.4010	ppb	3.6459	25.3	13.5973
Se 196.026	9.6252	ppb	3.3290	34.6	-2.9056
Sn 189.925	20.3764	ppb	0.9708	4.8	2.7513
Sr 216.596	21.9857	ppb	0.0864	0.4	1256.95
Ti 334.941	599.277	ppb	3.1367	0.5	198095
Tl 190.794	13.1297	ppb	2.7762	21.1	-63.4033
V 292.401	274.493	ppb	1.7795	0.6	10479.8
Zn 206.200	168.539	ppb	2.9046	1.7	505.906

680-115767-a-25-a (Samp)      8/19/2015, 8:39:10 PM      Rack 2, Tube 7  
 Weight: 1      Volume: 1      Dilution: 1

Label	Replicates Concentration			
Ag 328.068	-2.7244u	-2.1095u	-2.7831u	
Al 308.215	105443	104809	104441	
As 188.980	43.8698	40.4131	47.1030	
B 249.678	5.8553u	6.0871u	6.1612u	
Ba 389.178	929.263	924.589	919.198	
Be 313.042	6.2284	6.2268	6.1967	
Ca 370.602	109030	109418	109378	
Cd 226.502	-0.5502	-0.4839	-0.7397	
Co 228.615	74.6765	75.1327	73.4827	
Cr 267.716	85.0777	85.1496	84.7090	
Cu 324.754	515.218	546.727	538.578	
Fe 271.441	135386	135153	134956	
K 766.491	11212.1	11128.5	11093.8	
Mg 279.078	62757.8	62574.0	62350.7	
Mn 257.610	2072.04	2071.55	2061.86	
Mo 202.032	3.5573	4.0161	3.9252	
Na 330.237	-285.624u	-246.198u	-110.094u	

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Label	Replicates	Concentration
Ni 231.604	61.0220	62.1009
Pb 220.353	2460.05	2461.64
Sb 206.834	-3.3840u	-2.8612u
Se 196.026	10.7505	4.1685
Sn 189.925	15.5380	19.7712
Sr 216.596	89.0873	89.2575
Ti 334.941	424.234	423.973
Tl 190.794	11.1822	3.0422u
V 292.401	132.441	132.362
Zn 206.200	303.126	304.177

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-2.5390	ppb	0.3731	14.7	-247.127
Al 308.215	104898	ppb	506.663	0.5	892800
As 188.980	43.7953	ppb	3.3456	7.6	37.6719
B 249.678	6.0345	ppb	0.1596	2.6	-148.909
Ba 389.178	924.350	ppb	5.0365	0.5	30591.3
Be 313.042	6.2173	ppb	0.0178	0.3	15971.3
Ca 370.602	109275	ppb	213.5	0.2	600588
Cd 226.502	-0.5913	ppb	0.1327	22.4	845.838
Co 228.615	74.4306	ppb	0.8520	1.1	1409.76
Cr 267.716	84.9788	ppb	0.2364	0.3	6987.05
Cu 324.754	533.508	ppb	16.3547	3.1	36541.9
Fe 271.441	135165	ppb	215.086	0.2	365122
K 766.491	11144.8	ppb	60.8244	0.5	689470
Mg 279.078	62560.8	ppb	203.895	0.3	328614
Mn 257.610	2068.48	ppb	5.7431	0.3	702684
Mo 202.032	3.8329	ppb	0.2429	6.3	53.6604
Na 330.237	-213.972	ppb	92.0954	43.0	109.034
Ni 231.604	62.3668	ppb	1.4955	2.4	337.619
Pb 220.353	2459.48	ppb	2.4964	0.1	8070.96
Sb 206.834	-0.2281	ppb	5.0202	2200.7	38.1952
Se 196.026	5.4627	ppb	4.7741	87.4	-5.8526
Sn 189.925	18.3718	ppb	2.4542	13.4	-0.4979
Sr 216.596	88.9611	ppb	0.3758	0.4	2490.80
Ti 334.941	423.922	ppb	0.3411	0.1	140245
Tl 190.794	6.0784	ppb	4.4464	73.2	-58.3232
V 292.401	132.193	ppb	0.3631	0.3	5033.92
Zn 206.200	303.665	ppb	0.5265	0.2	912.247

680-115767-a-13-a (Samp)      8/19/2015, 8:43:45 PM      Rack 2, Tube 8  
 Weight: 1      Volume: 1      Dilution: 1

Label	Replicates	Concentration
Ag 328.068	-3.6423u	-3.5141u
Al 308.215	115785	116233
As 188.980	47.0798	48.4887
B 249.678	-1.8561u	-2.5907u
Ba 389.178	555.645	559.211
Be 313.042	7.2228	7.2546
Ca 370.602	6831	6862
Cd 226.502	-2.1079	-2.0083
Co 228.615	43.5157	40.9041
Cr 267.716	156.652	156.749

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Label	Replicates Concentration			
Cu 324.754	135.207	130.204	127.180	
Fe 271.441	240355	241161	244203	
K 766.491	4335.74	4358.99	4413.37	
Mg 279.078	5771.04	5793.22	5854.19	
Mn 257.610	2440.73	2448.15	2478.07	
Mo 202.032	5.6494	5.3180	5.4557	
Na 330.237	-500.587u	-490.021u	-432.746u	
Ni 231.604	55.4739	57.1091	54.9983	
Pb 220.353	167.079	169.920	169.814	
Sb 206.834	-4.3757u	-10.2938u	-10.1636u	
Se 196.026	16.2657	11.6048	13.0643	
Sn 189.925	17.9644	19.6247	15.7248	
Sr 216.596	26.4552	26.7143	27.6919	
Ti 334.941	652.168	658.284	663.624	
Tl 190.794	11.4862u	13.4675u	13.4153u	
V 292.401	253.018	253.441	257.933	
Zn 206.200	254.791	259.828	263.633	

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-3.7852	ppb	0.3643	9.6	-379.514
Al 308.215	116695	ppb	1210.28	1.0	993161
As 188.980	48.0938	ppb	0.8853	1.8	41.5204
B 249.678	-2.5403	ppb	0.6604	26.0	-599.816
Ba 389.178	560.935	ppb	6.3300	1.1	18533.2
Be 313.042	7.2954	ppb	0.0996	1.4	18816.9
Ca 370.602	6891	ppb	77.52	1.1	32826
Cd 226.502	-1.9712	ppb	0.1585	8.0	1357.87
Co 228.615	43.0118	ppb	1.9064	4.4	793.501
Cr 267.716	157.618	ppb	1.5895	1.0	12906.9
Cu 324.754	130.864	ppb	4.0542	3.1	9211.16
Fe 271.441	241906	ppb	2029.72	0.8	653323
K 766.491	4369.37	ppb	39.8378	0.9	270631
Mg 279.078	5806.15	ppb	43.0571	0.7	30429.4
Mn 257.610	2455.65	ppb	19.7669	0.8	833757
Mo 202.032	5.4744	ppb	0.1665	3.0	61.7248
Na 330.237	-474.451	ppb	36.5021	7.7	43.6410
Ni 231.604	55.8605	ppb	1.1072	2.0	312.952
Pb 220.353	168.938	ppb	1.6105	1.0	649.116
Sb 206.834	-8.2777	ppb	3.3798	40.8	23.7661
Se 196.026	13.6449	ppb	2.3841	17.5	-0.1509
Sn 189.925	17.7713	ppb	1.9571	11.0	-1.4719
Sr 216.596	26.9538	ppb	0.6522	2.4	1314.86
Ti 334.941	658.025	ppb	5.7327	0.9	217510
Tl 190.794	12.7896	ppb	1.1291	8.8	-61.8275
V 292.401	254.797	ppb	2.7237	1.1	9727.42
Zn 206.200	259.417	ppb	4.4352	1.7	778.857

680-115767-a-20-a (Samp)      8/19/2015, 8:48:20 PM      Rack 2, Tube 9  
 Weight: 1      Volume: 1      Dilution: 1

Label	Replicates Concentration			
Ag 328.068	-3.3763u	-3.5225u	-3.5283u	
Al 308.215	136904	136462	136662	
As 188.980	53.0154	59.6270	56.8504	

<b>Label</b>	<b>Replicates Concentration</b>			
B 249.678	-0.7534u	-1.2475u	-2.3581u	
Ba 389.178	718.380	712.777	713.865	
Be 313.042	10.0696	10.0132	10.0227	
Ca 370.602	1645	1635	1638	
Cd 226.502	-1.6551	-1.9848	-1.7715	
Co 228.615	50.0795	51.9753	51.5132	
Cr 267.716	193.564	193.111	192.997	
Cu 324.754	137.278	138.029	141.608	
Fe 271.441	262013	261209	261491	
K 766.491	6508.11	6469.57	6483.21	
Mg 279.078	4204.29	4198.61	4197.52	
Mn 257.610	9851.46	9826.95	9832.16	
Mo 202.032	4.9600	4.4820	6.1252	
Na 330.237	-516.353u	-355.045u	-354.518u	
Ni 231.604	53.9817	54.7470	54.1400	
Pb 220.353	245.775	243.850	246.639	
Sb 206.834	-9.6713u	-10.6846u	-16.4088u	
Se 196.026	7.2402	7.7034	7.0776	
Sn 189.925	20.2647	18.1125	20.3422	
Sr 216.596	19.4188	20.1572	20.3412	
Ti 334.941	640.181	635.954	640.951	
Tl 190.794	16.4441u	15.4079u	11.8651u	
V 292.401	266.355	266.086	265.783	
Zn 206.200	318.862	318.204	319.251	

<b>Label</b>	<b>Sol'n Conc.</b>	<b>Units</b>	<b>SD</b>	<b>%RSD</b>	<b>Int. (c/s)</b>
Ag 328.068	-3.4757	ppb	0.0861	2.5	-310.645
Al 308.215	136676	ppb	221.548	0.2	1163084
As 188.980	56.4976	ppb	3.3199	5.9	51.2358
B 249.678	-1.4530	ppb	0.8219	56.6	-631.444
Ba 389.178	715.007	ppb	2.9714	0.4	23636.3
Be 313.042	10.0352	ppb	0.0302	0.3	26136.6
Ca 370.602	1639	ppb	5.331	0.3	3694
Cd 226.502	-1.8038	ppb	0.1672	9.3	1490.32
Co 228.615	51.1893	ppb	0.9885	1.9	953.804
Cr 267.716	193.224	ppb	0.3001	0.2	15848.9
Cu 324.754	138.972	ppb	2.3138	1.7	9770.07
Fe 271.441	261571	ppb	407.962	0.2	706420
K 766.491	6486.96	ppb	19.5405	0.3	401535
Mg 279.078	4200.14	ppb	3.6320	0.1	21682.7
Mn 257.610	9836.86	ppb	12.9146	0.1	3336243
Mo 202.032	5.1891	ppb	0.8452	16.3	57.8983
Na 330.237	-408.639	ppb	93.2835	22.8	40.9898
Ni 231.604	54.2896	ppb	0.4039	0.7	306.371
Pb 220.353	245.421	ppb	1.4280	0.6	903.453
Sb 206.834	-12.2549	ppb	3.6329	29.6	17.3542
Se 196.026	7.3404	ppb	0.3247	4.4	-2.3301
Sn 189.925	19.5731	ppb	1.2655	6.5	1.4490
Sr 216.596	19.9724	ppb	0.4882	2.4	1202.45
Ti 334.941	639.029	ppb	2.6902	0.4	211233
Tl 190.794	14.5724	ppb	2.4011	16.5	-55.1085
V 292.401	266.075	ppb	0.2865	0.1	10156.9
Zn 206.200	318.772	ppb	0.5288	0.2	956.686

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680-115767-a-19-a (Samp)	8/19/2015, 8:52:56 PM	Rack 2, Tube 10
Weight: 1	Volume: 1	Dilution: 1
Label	Replicates	Concentration
Ag 328.068	-3.7014u	-3.8684u -4.6325u
Al 308.215	134738	134919 133134
As 188.980	45.5185	52.7107 45.1998
B 249.678	-0.4240u	-0.4619u 0.1548u
Ba 389.178	706.451	708.158 699.979
Be 313.042	9.2739	9.2936 9.1867
Ca 370.602	1399	1398 1388
Cd 226.502	-1.2570	-1.4591 -1.4713
Co 228.615	53.8569	54.5512 51.3446
Cr 267.716	148.849	149.290 147.693
Cu 324.754	121.878	119.258 121.673
Fe 271.441	214930	216041 213037
K 766.491	5710.46	5715.65 5671.87
Mg 279.078	4242.58	4250.22 4199.10
Mn 257.610	10846.3	10865.5 10730.4
Mo 202.032	5.3672	5.2513 5.2482
Na 330.237	-459.280u	-462.482u -599.087u
Ni 231.604	51.1809	50.0998 52.0451
Pb 220.353	264.674	268.787 264.122
Sb 206.834	-6.7218u	-7.9310u -7.1892u
Se 196.026	-0.9573	6.0728 3.5061
Sn 189.925	20.3087	18.6307 19.2857
Sr 216.596	22.5928	22.8561 21.8909
Ti 334.941	644.212	648.262 636.187
Tl 190.794	8.6634u	15.3733 17.1597
V 292.401	245.504	246.261 243.185
Zn 206.200	315.049	319.116 313.909

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-4.0675	ppb	0.4964	12.2	-352.339
Al 308.215	134263	ppb	982.593	0.7	1142558
As 188.980	47.8097	ppb	4.2474	8.9	41.5004
B 249.678	-0.2437	ppb	0.3456	141.8	-482.526
Ba 389.178	704.863	ppb	4.3145	0.6	23263.0
Be 313.042	9.2514	ppb	0.0569	0.6	24040.5
Ca 370.602	1395	ppb	6.178	0.4	3538
Cd 226.502	-1.3958	ppb	0.1204	8.6	1246.03
Co 228.615	53.2509	ppb	1.6870	3.2	996.261
Cr 267.716	148.611	ppb	0.8246	0.6	12228.8
Cu 324.754	120.936	ppb	1.4572	1.2	8525.54
Fe 271.441	214670	ppb	1519.24	0.7	579785
K 766.491	5699.33	ppb	23.9180	0.4	352845
Mg 279.078	4230.63	ppb	27.5760	0.7	21805.9
Mn 257.610	10814.0	ppb	73.0811	0.7	3667310
Mo 202.032	5.2889	ppb	0.0678	1.3	61.7526
Na 330.237	-506.950	ppb	79.8092	15.7	52.0121
Ni 231.604	51.1086	ppb	0.9747	1.9	284.852
Pb 220.353	265.861	ppb	2.5488	1.0	962.360
Sb 206.834	-7.2806	ppb	0.6097	8.4	25.8503
Se 196.026	2.8738	ppb	3.5574	123.8	-5.0686
Sn 189.925	19.4084	ppb	0.8457	4.4	1.1820
Sr 216.596	22.4466	ppb	0.4989	2.2	1138.76

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Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ti 334.941	642.887	ppb	6.1456	1.0	212501
Tl 190.794	13.7322	ppb	4.4796	32.6	-48.6217
V 292.401	244.983	ppb	1.6024	0.7	9351.70
Zn 206.200	316.025	ppb	2.7373	0.9	948.815

680-115767-a-18-a (Samp)      8/19/2015, 8:57:32 PM      Rack 2, Tube 11  
 Weight: 1      Volume: 1      Dilution: 1

Label	Replicates	Concentration				
Ag 328.068	-4.5651u	-3.9021u	-3.9700u			
Al 308.215	127716	127243	127701			
As 188.980	48.3631	53.7958	51.4292			
B 249.678	-2.1962u	-2.3227u	-2.1946u			
Ba 389.178	769.789	762.059	764.744			
Be 313.042	9.3309	9.3119	9.3274			
Ca 370.602	2989	2977	2982			
Cd 226.502	-1.4383	-1.7539	-1.4949			
Co 228.615	45.4013	47.8065	48.6317			
Cr 267.716	160.925	160.756	160.738			
Cu 324.754	145.617	141.602	142.820			
Fe 271.441	242329	241945	242333			
K 766.491	4660.54	4650.73	4670.02			
Mg 279.078	4316.32	4307.73	4313.57			
Mn 257.610	8810.52	8789.45	8805.17			
Mo 202.032	4.7503	4.7310	4.3673			
Na 330.237	-640.321u	-510.589u	-598.475u			
Ni 231.604	58.1236	57.8149	56.5741			
Pb 220.353	195.942	196.176	191.685			
Sb 206.834	-8.5440u	-17.2795u	-14.9103u			
Se 196.026	11.1465	14.0491	9.3034			
Sn 189.925	17.9642	22.1251	17.4548			
Sr 216.596	23.7857	24.1434	24.5210			
Ti 334.941	588.197	586.848	590.664			
Tl 190.794	11.8236u	10.1760u	12.9306u			
V 292.401	249.797	248.803	250.082			
Zn 206.200	504.243	502.310	507.656			

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-4.1457	ppb	0.3648	8.8	-376.792
Al 308.215	127553	ppb	268.872	0.2	1085498
As 188.980	51.1961	ppb	2.7238	5.3	45.1884
B 249.678	-2.2378	ppb	0.0735	3.3	-594.747
Ba 389.178	765.531	ppb	3.9243	0.5	25290.3
Be 313.042	9.3234	ppb	0.0101	0.1	24233.6
Ca 370.602	2982	ppb	6.243	0.2	11489
Cd 226.502	-1.5623	ppb	0.1683	10.8	1395.99
Co 228.615	47.2798	ppb	1.6784	3.5	875.355
Cr 267.716	160.807	ppb	0.1031	0.1	13211.3
Cu 324.754	143.346	ppb	2.0584	1.4	10059.9
Fe 271.441	242202	ppb	222.944	0.1	654123
K 766.491	4660.43	ppb	9.6443	0.2	288624
Mg 279.078	4312.54	ppb	4.3856	0.1	22321.4
Mn 257.610	8801.71	ppb	10.9494	0.1	2985215
Mo 202.032	4.6162	ppb	0.2158	4.7	53.9384

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Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Na 330.237	-583.129	ppb	66.2137	11.4	34.1246
Ni 231.604	57.5042	ppb	0.8201	1.4	321.790
Pb 220.353	194.601	ppb	2.5278	1.3	734.973
Sb 206.834	-13.5779	ppb	4.5176	33.3	15.0442
Se 196.026	11.4997	ppb	2.3925	20.8	0.6488
Sn 189.925	19.1814	ppb	2.5620	13.4	0.8139
Sr 216.596	24.1500	ppb	0.3677	1.5	1249.85
Ti 334.941	588.570	ppb	1.9351	0.3	194555
Tl 190.794	11.6434	ppb	1.3861	11.9	-58.5037
V 292.401	249.561	ppb	0.6716	0.3	9526.02
Zn 206.200	504.736	ppb	2.7067	0.5	1515.04

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Rack 2, Tube 12

Weight: 1

Volume: 1

Dilution: 1

Label	Replicates	Concentration			
Ag 328.068	-2.9960u	-2.5535u	-1.6878u		
Al 308.215	87659.7	87144.6	89201.3		
As 188.980	44.1615	46.0869	43.4390		
B 249.678	9.1842u	9.4626u	8.8122u		
Ba 389.178	727.259	722.837	742.385		
Be 313.042	4.8639	4.8219	4.9383		
Ca 370.602	1229	1220	1234		
Cd 226.502	-1.0274	-1.1354	-0.7146		
Co 228.615	37.1935	37.3817	39.5106		
Cr 267.716	73.0787	72.3561	74.0260		
Cu 324.754	442.283	423.871	438.413		
Fe 271.441	120663	119424	122015		
K 766.491	18017.9	17828.3	18189.0		
Mg 279.078	3447.54	3414.24	3491.81		
Mn 257.610	2863.50	2844.44	2909.82		
Mo 202.032	5.1366	4.6394	3.6133		
Na 330.237	-176.518u	-203.847u	-188.110u		
Ni 231.604	33.4149	31.6532	33.5821		
Pb 220.353	1318.38	1310.04	1343.39		
Sb 206.834	-10.4563u	-6.8471u	-4.9471u		
Se 196.026	4.5142	2.9852	10.0451		
Sn 189.925	13.1233	16.0992	18.3163		
Sr 216.596	25.1114	24.6769	25.4622		
Ti 334.941	325.872	324.734	330.676		
Tl 190.794	10.0872	3.5929u	8.9636		
V 292.401	108.296	107.131	110.019		
Zn 206.200	155.744	152.332	157.630		

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-2.4124	ppb	0.6654	27.6	-224.047
Al 308.215	88001.9	ppb	1070.16	1.2	749109
As 188.980	44.5624	ppb	1.3687	3.1	38.7475
B 249.678	9.1530	ppb	0.3264	3.6	-49.8244
Ba 389.178	730.827	ppb	10.2509	1.4	24042.8
Be 313.042	4.8747	ppb	0.0589	1.2	12330.6
Ca 370.602	1227	ppb	7.060	0.6	4233
Cd 226.502	-0.9591	ppb	0.2185	22.8	725.403
Co 228.615	38.0286	ppb	1.2869	3.4	687.372

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Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Cr 267.716	73.1536	ppb	0.8374	1.1	6030.39
Cu 324.754	434.856	ppb	9.7079	2.2	29830.1
Fe 271.441	120701	ppb	1295.63	1.1	326060
K 766.491	18011.8	ppb	180.406	1.0	1113965
Mg 279.078	3451.20	ppb	38.9156	1.1	18061.9
Mn 257.610	2872.59	ppb	33.6229	1.2	974519
Mo 202.032	4.4631	ppb	0.7768	17.4	60.3074
Na 330.237	-189.492	ppb	13.7165	7.2	117.224
Ni 231.604	32.8834	ppb	1.0687	3.2	178.232
Pb 220.353	1323.94	ppb	17.3531	1.3	4381.31
Sb 206.834	-7.4169	ppb	2.7985	37.7	26.3649
Se 196.026	5.8482	ppb	3.7142	63.5	-5.1303
Sn 189.925	15.8463	ppb	2.6057	16.4	-4.5921
Sr 216.596	25.0835	ppb	0.3934	1.6	957.894
Ti 334.941	327.094	ppb	3.1537	1.0	108126
Tl 190.794	7.5479	ppb	3.4709	46.0	-52.9040
V 292.401	108.482	ppb	1.4531	1.3	4124.29
Zn 206.200	155.235	ppb	2.6856	1.7	466.910

Cont Calib Verif (CCV)

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Rack 2, Tube 13

Weight: 1

Volume: 1

Dilution: 1

Label	Replicates	Concentration					
Ag 328.068	471.261	498.896	500.670				
Al 308.215	4890.36	4836.18	4914.80				
As 188.980	485.236	480.850	483.407				
B 249.678	475.768	473.672	480.248				
Ba 389.178	4905.76	4856.07	4931.92				
Be 313.042	486.606	482.655	490.994				
Ca 370.602	5217	5143	5226				
Cd 226.502	494.434	488.933	496.016				
Co 228.615	489.062	483.850	491.704				
Cr 267.716	5023.71	4977.44	5066.95				
Cu 324.754	5173.37	4962.70	5202.87				
Fe 271.441	4843.60	4787.85	4858.39				
K 766.491	9878.61	9801.37	9972.50				
Mg 279.078	4870.92	4796.71	4863.65				
Mn 257.610	4925.86	4878.22	4958.74				
Mo 202.032	497.030	492.944	498.669				
Na 330.237	6812.29	6716.68	7080.42				
Ni 231.604	2441.71	2417.28	2452.04				
Pb 220.353	492.917	487.382	494.526				
Sb 206.834	992.780	983.306	995.680				
Se 196.026	4849.69	4839.68	4878.86				
Sn 189.925	4845.75	4923.12	5154.72				
Sr 216.596	2455.96	2427.39	2468.12				
Ti 334.941	486.646	481.210	489.757				
Tl 190.794	4945.32	4870.21	4972.41				
V 292.401	4870.36	4821.02	4896.43				
Zn 206.200	2476.87	2435.62	2474.31				

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)	QC Value
Ag 328.068	490.276	ppb	16.4912	3.4	46486.6	98.05511
Al 308.215	4880.45	ppb	40.2367	0.8	42873.6	97.60892

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<b>Label</b>	<b>Sol'n Conc.</b>	<b>Units</b>	<b>SD</b>	<b>%RSD</b>	<b>Int. (c/s)</b>	<b>QC Value</b>
As 188.980	483.164	ppb	2.2028	0.5	558.739	96.63283
B 249.678	476.563	ppb	3.3596	0.7	9314.36	95.31252
Ba 389.178	4897.92	ppb	38.5267	0.8	161667	97.95832
Be 313.042	486.752	ppb	4.1715	0.9	1300436	97.35036
Ca 370.602	5195	ppb	45.50	0.9	29275	103.90938
Cd 226.502	493.128	ppb	3.7181	0.8	43639.4	98.62550
Co 228.615	488.205	ppb	3.9962	0.8	9578.46	97.64105
Cr 267.716	5022.70	ppb	44.7600	0.9	406297	100.45403
Cu 324.754	5112.98	ppb	130.979	2.6	347757	102.25962
Fe 271.441	4829.95	ppb	37.2025	0.8	13377.8	96.59894
K 766.491	9884.16	ppb	85.6992	0.9	611539	98.84158
Mg 279.078	4843.76	ppb	40.9087	0.8	25356.2	96.87520
Mn 257.610	4920.94	ppb	40.4847	0.8	1668440	98.41885
Mo 202.032	496.214	ppb	2.9486	0.6	4516.30	99.24290
Na 330.237	6869.80	ppb	188.566	2.7	751.223	91.59732
Ni 231.604	2437.01	ppb	17.8498	0.7	13061.8	97.48057
Pb 220.353	491.608	ppb	3.7476	0.8	1663.17	98.32161
Sb 206.834	990.589	ppb	6.4713	0.7	1758.03	99.05889
Se 196.026	4856.08	ppb	20.3581	0.4	3769.58	97.12155
Sn 189.925	4974.53	ppb	160.770	3.2	8034.27	99.49065
Sr 216.596	2450.49	ppb	20.9099	0.9	57358.1	98.01964
Ti 334.941	485.871	ppb	4.3256	0.9	160578	97.17421
Tl 190.794	4929.32	ppb	52.9451	1.1	9106.54	98.58633
V 292.401	4862.60	ppb	38.2962	0.8	185812	97.25210
Zn 206.200	2462.27	ppb	23.1152	0.9	7349.52	98.49063

Cont Calib Blank (CCB) 8/19/2015, 9:11:19 PM

Weight: 1 Volume: 1

Rack 2, Tube 14

Dilution: 1

<b>Label</b>	<b>Replicates</b>	<b>Concentration</b>
Ag 328.068	-0.3536u	0.2331
Al 308.215	-18.4730u	-16.9273u
As 188.980	2.0081	0.7890
B 249.678	3.5626	3.3636
Ba 389.178	1.6766	1.8816
Be 313.042	0.0147	-0.0014u
Ca 370.602	8.112	8.513
Cd 226.502	0.3152	0.4071
Co 228.615	0.7952	-0.2840u
Cr 267.716	-0.1560u	-0.3848u
Cu 324.754	1.7216	2.3624
Fe 271.441	-3.7862u	0.9622
K 766.491	-0.5552u	-0.0074u
Mg 279.078	-4.8871u	-5.9644u
Mn 257.610	0.0474	-0.0226u
Mo 202.032	0.2385	1.0729
Na 330.237	-176.088u	-63.8016u
Ni 231.604	2.1619	1.1382
Pb 220.353	-1.2271u	0.8955
Sb 206.834	-2.7566u	-5.5739u
Se 196.026	6.9017	-7.9253u
Sn 189.925	2.4409	0.2125
Sr 216.596	0.0664	0.4469
Ti 334.941	0.0563	0.0351

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Label	Replicates Concentration					
Tl 190.794	2.4686	-1.8608u	2.4154			
V 292.401	0.3550	0.0778	-0.0203u			
Zn 206.200	0.1211	0.4555	-0.0916u			

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)	QC Value
Ag 328.068	0.0023	ppb	0.3127	13556.9	11.7213	0.00231
Al 308.215	-18.3189	ppb	1.3213	7.2	535.532	-18.31891
As 188.980	1.1282	ppb	0.7687	68.1	-11.2438	1.12822
B 249.678	3.1037	ppb	0.6303	20.3	155.530	3.10371
Ba 389.178	2.0868	ppb	0.5427	26.0	-143.781	2.08679
Be 313.042	0.0090	ppb	0.0090	100.1	-687.440	0.00901
Ca 370.602	6.362	ppb	3.384	53.2	0.2649	6.36176
Cd 226.502	0.3651	ppb	0.0464	12.7	123.258	0.36511
Co 228.615	0.4099	ppb	0.6022	146.9	-63.3115	0.40993
Cr 267.716	-0.2068	ppb	0.1589	76.8	26.6909	-0.20678
Cu 324.754	1.5060	ppb	0.9821	65.2	324.077	1.50601
Fe 271.441	-4.3280	ppb	5.5808	128.9	143.624	-4.32796
K 766.491	-0.3927	ppb	0.3350	85.3	504.677	-0.39265
Mg 279.078	-3.7842	ppb	2.8939	76.5	89.8637	-3.78415
Mn 257.610	0.0105	ppb	0.0351	333.5	40.5226	0.01054
Mo 202.032	0.5291	ppb	0.4713	89.1	32.3218	0.52912
Na 330.237	-168.702	ppb	101.409	60.1	168.611	-168.70154
Ni 231.604	1.4209	ppb	0.6477	45.6	-1.8665	1.42089
Pb 220.353	-0.7148	ppb	1.4250	199.3	60.1889	-0.71483
Sb 206.834	-6.1709	ppb	3.7487	60.7	29.8170	-6.17090
Se 196.026	0.9056	ppb	7.8094	862.3	-9.1742	0.90564
Sn 189.925	1.2259	ppb	1.1278	92.0	-28.2937	1.22590
Sr 216.596	0.0829	ppb	0.3561	429.6	60.7168	0.08288
Ti 334.941	0.0426	ppb	0.0119	27.8	19.1427	0.04263
Tl 190.794	1.0077	ppb	2.4844	246.5	-49.3488	1.00773
V 292.401	0.1375	ppb	0.1946	141.6	-23.5287	0.13749
Zn 206.200	0.1617	ppb	0.2758	170.6	2.1430	0.16167

680-115767-a-23-a (Samp)      8/19/2015, 9:15:53 PM      Rack 2, Tube 15  
 Weight: 1      Volume: 1      Dilution: 1

Label	Replicates Concentration		
Ag 328.068	-2.6065u	-2.5022u	-3.2735u
Al 308.215	82056.1	80351.7	80931.6
As 188.980	32.8962	32.8633	35.4897
B 249.678	2.7029u	2.0592u	3.1109u
Ba 389.178	628.082	617.037	621.584
Be 313.042	5.4154	5.3091	5.3492
Ca 370.602	1209	1196	1199
Cd 226.502	-0.8830	-1.1184	-0.9948
Co 228.615	56.0033	55.8267	57.2585
Cr 267.716	93.3223	91.5686	92.1639
Cu 324.754	620.142	646.229	649.803
Fe 271.441	121017	118733	119785
K 766.491	4641.77	4545.45	4577.21
Mg 279.078	3272.16	3202.29	3226.35
Mn 257.610	2432.44	2387.66	2403.96
Mo 202.032	4.5948	3.9735	3.7467
Na 330.237	-483.005u	-364.800u	-414.310u

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Label	Replicates	Concentration			
Ni 231.604	48.7592	48.3658	47.2083		
Pb 220.353	3443.19	3367.94	3393.94		
Sb 206.834	-9.8482u	-0.3689u	-1.7497u		
Se 196.026	-2.0167u	3.3598	7.1871		
Sn 189.925	16.3769	13.3490	18.8451		
Sr 216.596	32.8314	31.7364	31.1149		
Ti 334.941	484.630	480.551	481.274		
Tl 190.794	11.1990	4.7641u	5.6087u		
V 292.401	99.9374	98.5791	98.9702		
Zn 206.200	150.664	148.078	149.468		

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-2.7941	ppb	0.4184	15.0	-263.111
Al 308.215	81113.1	ppb	866.549	1.1	690524
As 188.980	33.7498	ppb	1.5069	4.5	25.9642
B 249.678	2.6243	ppb	0.5302	20.2	-173.711
Ba 389.178	622.234	ppb	5.5516	0.9	20453.2
Be 313.042	5.3579	ppb	0.0537	1.0	13620.9
Ca 370.602	1201	ppb	6.664	0.6	4219
Cd 226.502	-0.9987	ppb	0.1177	11.8	715.944
Co 228.615	56.3628	ppb	0.7807	1.4	1055.39
Cr 267.716	92.3516	ppb	0.8918	1.0	7580.14
Cu 324.754	638.725	ppb	16.1920	2.5	43688.9
Fe 271.441	119845	ppb	1143.11	1.0	323753
K 766.491	4588.14	ppb	49.0790	1.1	284155
Mg 279.078	3233.60	ppb	35.4959	1.1	16942.4
Mn 257.610	2408.02	ppb	22.6686	0.9	817011
Mo 202.032	4.1050	ppb	0.4391	10.7	57.1321
Na 330.237	-420.705	ppb	59.3612	14.1	98.2758
Ni 231.604	48.1111	ppb	0.8062	1.7	259.748
Pb 220.353	3401.69	ppb	38.2200	1.1	11129.4
Sb 206.834	-3.9889	ppb	5.1210	128.4	32.3888
Se 196.026	2.8434	ppb	4.6236	162.6	-7.6423
Sn 189.925	16.1903	ppb	2.7528	17.0	-4.0345
Sr 216.596	31.8942	ppb	0.8691	2.7	1114.39
Ti 334.941	482.152	ppb	2.1766	0.5	159366
Tl 190.794	7.1906	ppb	3.4970	48.6	-53.7692
V 292.401	99.1622	ppb	0.6992	0.7	3767.83
Zn 206.200	149.403	ppb	1.2938	0.9	449.249

680-115767-a-14-a (Samp)      8/19/2015, 9:20:28 PM      Rack 2, Tube 16  
 Weight: 1      Volume: 1      Dilution: 1

Label	Replicates	Concentration			
Ag 328.068	-3.7530u	-3.4653u	-3.0881u		
Al 308.215	93249.4	93596.5	93060.9		
As 188.980	45.6297	52.7104	50.5576		
B 249.678	-4.5637u	-3.0422u	-3.1646u		
Ba 389.178	870.958	878.138	872.394		
Be 313.042	7.0436	7.0694	7.0239		
Ca 370.602	2596	2606	2584		
Cd 226.502	-2.8201	-2.4783	-2.4917		
Co 228.615	49.0090	48.1203	50.0619		
Cr 267.716	169.987	170.310	169.254		

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Label	Replicates	Concentration				
Cu 324.754	96.1742	95.3261	97.9085			
Fe 271.441	290995	292472	290891			
K 766.491	6118.78	6148.35	6099.08			
Mg 279.078	2888.18	2901.29	2883.33			
Mn 257.610	3237.92	3246.36	3224.53			
Mo 202.032	5.9200	6.1201	5.3124			
Na 330.237	-546.404u	-454.167u	-600.173u			
Ni 231.604	51.6384	53.5071	51.7068			
Pb 220.353	76.6495	75.5995	75.6449			
Sb 206.834	-12.0312u	-17.0639u	-11.9777u			
Se 196.026	19.0007	16.0775	13.5656			
Sn 189.925	19.8476	21.5660	18.9233			
Sr 216.596	24.0527	23.5288	23.1702			
Ti 334.941	669.937	672.642	670.867			
Tl 190.794	15.5750u	12.8239u	14.7903u			
V 292.401	287.504	288.323	286.938			
Zn 206.200	216.137	216.615	216.561			

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-3.4355	ppb	0.3335	9.7	-351.146
Al 308.215	93302.3	ppb	271.693	0.3	794232
As 188.980	49.6326	ppb	3.6298	7.3	42.7665
B 249.678	-3.5902	ppb	0.8453	23.5	-752.554
Ba 389.178	873.830	ppb	3.7993	0.4	28905.6
Be 313.042	7.0456	ppb	0.0228	0.3	18145.2
Ca 370.602	2596	ppb	10.97	0.4	7953
Cd 226.502	-2.5967	ppb	0.1936	7.5	1598.35
Co 228.615	49.0637	ppb	0.9720	2.0	911.711
Cr 267.716	169.851	ppb	0.5411	0.3	13920.9
Cu 324.754	96.4696	ppb	1.3163	1.4	6892.40
Fe 271.441	291453	ppb	884.064	0.3	787102
K 766.491	6122.07	ppb	24.7978	0.4	378978
Mg 279.078	2890.93	ppb	9.2944	0.3	15100.0
Mn 257.610	3236.27	ppb	11.0105	0.3	1098603
Mo 202.032	5.7842	ppb	0.4206	7.3	61.4030
Na 330.237	-533.582	ppb	73.8426	13.8	18.4607
Ni 231.604	52.2841	ppb	1.0597	2.0	298.415
Pb 220.353	75.9647	ppb	0.5936	0.8	356.495
Sb 206.834	-13.6910	ppb	2.9212	21.3	13.9507
Se 196.026	16.2146	ppb	2.7202	16.8	1.7745
Sn 189.925	20.1123	ppb	1.3411	6.7	2.3229
Sr 216.596	23.5839	ppb	0.4438	1.9	1364.67
Ti 334.941	671.148	ppb	1.3743	0.2	221846
Tl 190.794	14.3964	ppb	1.4172	9.8	-65.7075
V 292.401	287.588	ppb	0.6965	0.2	10983.2
Zn 206.200	216.438	ppb	0.2619	0.1	649.770

680-115767-a-15-a (Samp)      8/19/2015, 9:25:03 PM      Rack 2, Tube 17  
 Weight: 1      Volume: 1      Dilution: 1

Label	Replicates	Concentration				
Ag 328.068	-2.9397u	-3.5576u	-2.7385u			
Al 308.215	94679.6	93445.5	93137.6			
As 188.980	48.8464	44.3382	41.1932			

Label	Replicates Concentration			
B 249.678	6.9466u	6.3767u	7.2781u	
Ba 389.178	914.607	906.927	902.713	
Be 313.042	9.0500	8.9651	8.9075	
Ca 370.602	2870	2849	2846	
Cd 226.502	-1.3248	-1.6190	-1.6872	
Co 228.615	67.5531	62.9056	64.6404	
Cr 267.716	100.355	99.1388	98.9012	
Cu 324.754	72.9195	71.8306	66.3976	
Fe 271.441	181122	179077	178357	
K 766.491	14293.7	14214.8	14091.4	
Mg 279.078	4396.09	4344.72	4322.08	
Mn 257.610	5300.88	5249.48	5225.51	
Mo 202.032	3.4406	3.4090	4.4075	
Na 330.237	-394.450u	-636.381u	-271.646u	
Ni 231.604	55.4748	58.0532	55.5919	
Pb 220.353	79.3014	76.9757	75.8196	
Sb 206.834	-12.8838u	-8.8954u	-16.7269u	
Se 196.026	16.8916	12.2428	4.7361	
Sn 189.925	16.2585	20.1736	14.8330	
Sr 216.596	48.0304	47.6539	47.2356	
Ti 334.941	485.646	483.222	483.391	
Tl 190.794	12.0387u	12.6768	11.5816u	
V 292.401	155.556	154.034	153.375	
Zn 206.200	235.122	229.030	229.116	

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-3.0786	ppb	0.4269	13.9	-285.412
Al 308.215	93754.2	ppb	816.084	0.9	798042
As 188.980	44.7926	ppb	3.8468	8.6	38.3391
B 249.678	6.8671	ppb	0.4559	6.6	-251.089
Ba 389.178	908.082	ppb	6.0305	0.7	29949.8
Be 313.042	8.9742	ppb	0.0717	0.8	23290.3
Ca 370.602	2855	ppb	12.95	0.5	12043
Cd 226.502	-1.5437	ppb	0.1926	12.5	1023.78
Co 228.615	65.0330	ppb	2.3485	3.6	1224.56
Cr 267.716	99.4649	ppb	0.7798	0.8	8199.23
Cu 324.754	70.3826	ppb	3.4938	5.0	5076.01
Fe 271.441	179519	ppb	1434.55	0.8	484876
K 766.491	14200.0	ppb	101.971	0.7	878330
Mg 279.078	4354.30	ppb	37.9250	0.9	22706.8
Mn 257.610	5258.62	ppb	38.5097	0.7	1783728
Mo 202.032	3.7524	ppb	0.5676	15.1	50.1482
Na 330.237	-434.159	ppb	185.581	42.7	72.6170
Ni 231.604	56.3733	ppb	1.4560	2.6	309.686
Pb 220.353	77.3656	ppb	1.7733	2.3	343.134
Sb 206.834	-12.8354	ppb	3.9160	30.5	16.5983
Se 196.026	11.2902	ppb	6.1335	54.3	-0.4165
Sn 189.925	17.0884	ppb	2.7653	16.2	-2.5789
Sr 216.596	47.6399	ppb	0.3976	0.8	1637.65
Ti 334.941	484.086	ppb	1.3534	0.3	160017
Tl 190.794	12.0990	ppb	0.5500	4.5	-51.2204
V 292.401	154.321	ppb	1.1185	0.7	5880.61
Zn 206.200	231.089	ppb	3.4927	1.5	694.327

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680-115767-a-17-a (Samp)	8/19/2015, 9:29:38 PM	Rack 2, Tube 18
Weight: 1	Volume: 1	Dilution: 1
Label	Replicates	Concentration
Ag 328.068	-3.7358u	-3.9272u
Al 308.215	128463	128044
As 188.980	56.1946	59.3285
B 249.678	-4.7629u	-3.4227u
Ba 389.178	709.778	707.506
Be 313.042	9.3716	9.3277
Ca 370.602	1931	1932
Cd 226.502	-2.0600	-2.1276
Co 228.615	44.1657	44.0124
Cr 267.716	197.901	197.770
Cu 324.754	136.142	139.877
Fe 271.441	278287	277152
K 766.491	4790.55	4764.92
Mg 279.078	3489.70	3486.75
Mn 257.610	4408.18	4406.87
Mo 202.032	6.3416	6.1758
Na 330.237	-557.920u	-588.135u
Ni 231.604	58.8966	58.3675
Pb 220.353	123.780	125.906
Sb 206.834	-14.5160u	-16.5022u
Se 196.026	21.9230	13.5508
Sn 189.925	18.0539	22.9396
Sr 216.596	16.2852	15.7481
Ti 334.941	576.071	574.391
Tl 190.794	14.2858u	16.7241u
V 292.401	286.172	285.284
Zn 206.200	335.745	333.789
		336.273

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-4.1073	ppb	0.4872	11.9	-404.955
Al 308.215	127988	ppb	505.351	0.4	1089203
As 188.980	57.5051	ppb	1.6287	2.8	52.2443
B 249.678	-4.2859	ppb	0.7490	17.5	-728.399
Ba 389.178	707.310	ppb	2.5723	0.4	23393.2
Be 313.042	9.3367	ppb	0.0314	0.3	24272.2
Ca 370.602	1931	ppb	1.263	0.1	4597
Cd 226.502	-2.1825	ppb	0.1573	7.2	1551.46
Co 228.615	43.9692	ppb	0.2213	0.5	808.089
Cr 267.716	197.510	ppb	0.5673	0.3	16161.6
Cu 324.754	137.677	ppb	1.9543	1.4	9688.12
Fe 271.441	277504	ppb	678.990	0.2	749439
K 766.491	4758.39	ppb	35.8683	0.8	294679
Mg 279.078	3484.02	ppb	7.4399	0.2	18144.1
Mn 257.610	4403.90	ppb	6.3231	0.1	1494399
Mo 202.032	6.0338	ppb	0.3982	6.6	64.5419
Na 330.237	-570.574	ppb	15.6937	2.8	20.9786
Ni 231.604	57.8646	ppb	1.3553	2.3	327.069
Pb 220.353	124.487	ppb	1.2295	1.0	511.353
Sb 206.834	-14.6010	ppb	1.8601	12.7	13.1874
Se 196.026	14.2873	ppb	7.2954	51.1	0.8364
Sn 189.925	21.2617	ppb	2.7790	13.1	4.1863
Sr 216.596	15.9050	ppb	0.3309	2.1	1147.95

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Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ti 334.941	573.160	ppb	3.6844	0.6	189466
Tl 190.794	12.2955	ppb	5.6911	46.3	-66.4556
V 292.401	285.499	ppb	0.5953	0.2	10900.0
Zn 206.200	335.269	ppb	1.3084	0.4	1006.16

mb 680-396757/1-a (Samp)      8/19/2015, 9:34:13 PM      Rack 2, Tube 19  
 Weight: 1      Volume: 1      Dilution: 1

Label	Replicates	Concentration				
Ag 328.068	-0.5317u	0.5208	-0.1291u			
Al 308.215	-11.9564u	-7.9898u	-8.8396u			
As 188.980	-1.4828u	1.8556	-1.5317u			
B 249.678	0.0724	-0.0637u	0.3395			
Ba 389.178	2.1349	1.9740	1.6729			
Be 313.042	0.0101	-0.0057u	0.0074			
Ca 370.602	21.90	19.31	19.29			
Cd 226.502	0.4104	0.4809	0.3171			
Co 228.615	0.9579	0.4138	1.0431			
Cr 267.716	0.0492	0.1400	0.1976			
Cu 324.754	0.5662	0.6589	-0.2875u			
Fe 271.441	1.3561	4.7721	-3.9041u			
K 766.491	9.0782	8.9138	7.9659			
Mg 279.078	-5.1988u	-0.0298u	-1.3303u			
Mn 257.610	0.2449	0.2770	0.2720			
Mo 202.032	0.5661	0.8775	0.2870			
Na 330.237	-23.5394u	-12.1567u	-53.8349u			
Ni 231.604	1.2399	2.6845	1.9535			
Pb 220.353	-1.0745u	-0.8166u	-0.9531u			
Sb 206.834	-11.3839u	-0.9480u	-3.7311u			
Se 196.026	-0.9871u	2.4369	0.2837			
Sn 189.925	12.5880	11.6876	10.7307			
Sr 216.596	0.3555	0.1744	0.1796			
Ti 334.941	0.1177	0.1637	0.1615			
Tl 190.794	2.6323	1.2152	-1.3030u			
V 292.401	0.3007	0.1516	0.0581			
Zn 206.200	1.8045	3.8258	3.6268			

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.0467	ppb	0.5311	1138.3	7.0870
Al 308.215	-9.5953	ppb	2.0885	21.8	609.723
As 188.980	-0.3863	ppb	1.9417	502.7	-13.0359
B 249.678	0.1161	ppb	0.2052	176.8	97.7351
Ba 389.178	1.9273	ppb	0.2346	12.2	-149.040
Be 313.042	0.0039	ppb	0.0084	214.4	-701.015
Ca 370.602	20.17	ppb	1.504	7.5	76.33
Cd 226.502	0.4028	ppb	0.0822	20.4	126.652
Co 228.615	0.8049	ppb	0.3414	42.4	-55.5159
Cr 267.716	0.1289	ppb	0.0748	58.1	53.8540
Cu 324.754	0.3125	ppb	0.5217	166.9	242.951
Fe 271.441	0.7414	ppb	4.3706	589.5	157.383
K 766.491	8.6526	ppb	0.6004	6.9	1063.83
Mg 279.078	-2.1863	ppb	2.6887	123.0	98.2415
Mn 257.610	0.2646	ppb	0.0173	6.5	126.733
Mo 202.032	0.5769	ppb	0.2954	51.2	32.7536

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Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Na 330.237	-29.8438	ppb	21.5424	72.2	180.200
Ni 231.604	1.9593	ppb	0.7223	36.9	1.0210
Pb 220.353	-0.9481	ppb	0.1290	13.6	59.4329
Sb 206.834	-5.3543	ppb	5.4040	100.9	31.1790
Se 196.026	0.5778	ppb	1.7308	299.5	-9.4291
Sn 189.925	11.6688	ppb	0.9288	8.0	-11.3640
Sr 216.596	0.2365	ppb	0.1031	43.6	64.3105
Ti 334.941	0.1476	ppb	0.0259	17.6	53.8355
Tl 190.794	0.8482	ppb	1.9931	235.0	-49.6443
V 292.401	0.1701	ppb	0.1223	71.9	-22.3043
Zn 206.200	3.0857	ppb	1.1140	36.1	10.9155

lcs 680-396757/2-a (Samp)

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Rack 2, Tube 20

Weight: 1

Volume: 1

Dilution: 1

Label	Replicates	Concentration
Ag 328.068	47.1687	48.7719
Al 308.215	4758.83	4944.93
As 188.980	101.679	109.952
B 249.678	184.575	192.414
Ba 389.178	99.2927	103.462
Be 313.042	50.5359	52.3492
Ca 370.602	4990	5203
Cd 226.502	50.9001	53.2188
Co 228.615	50.9250	52.7253
Cr 267.716	100.521	104.494
Cu 324.754	101.069	105.755
Fe 271.441	4758.37	4956.10
K 766.491	4908.97	5080.87
Mg 279.078	4680.18	4869.62
Mn 257.610	490.580	509.707
Mo 202.032	97.4102	101.756
Na 330.237	4491.93	4807.15
Ni 231.604	99.1409	102.743
Pb 220.353	476.159	496.982
Sb 206.834	48.1031	53.9620
Se 196.026	92.8897	103.137
Sn 189.925	201.818	213.502
Sr 216.596	96.3002	101.063
Ti 334.941	97.8508	101.751
Tl 190.794	41.1370	43.1721
V 292.401	97.6105	102.282
Zn 206.200	101.000	102.807

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	47.4216	ppb	1.2433	2.6	4510.27
Al 308.215	4811.65	ppb	116.243	2.4	41629.6
As 188.980	103.405	ppb	5.8775	5.7	109.653
B 249.678	187.038	ppb	4.6609	2.5	3700.11
Ba 389.178	100.282	ppb	2.8194	2.8	3117.25
Be 313.042	51.0459	ppb	1.1376	2.2	135699
Ca 370.602	5061	ppb	122.8	2.4	27906
Cd 226.502	51.5930	ppb	1.4132	2.7	4672.88
Co 228.615	51.6206	ppb	0.9673	1.9	946.546

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<b>Label</b>	<b>Sol'n Conc.</b>	<b>Units</b>	<b>SD</b>	<b>%RSD</b>	<b>Int. (c/s)</b>
Cr 267.716	101.705	ppb	2.4244	2.4	8274.23
Cu 324.754	102.119	ppb	3.2413	3.2	7168.02
Fe 271.441	4819.82	ppb	118.204	2.5	13179.9
K 766.491	4952.53	ppb	113.040	2.3	306680
Mg 279.078	4736.34	ppb	115.898	2.4	24968.7
Mn 257.610	496.329	ppb	11.6236	2.3	168384
Mo 202.032	98.8811	ppb	2.4902	2.5	923.033
Na 330.237	4627.10	ppb	162.328	3.5	567.049
Ni 231.604	100.090	ppb	2.3290	2.3	527.665
Pb 220.353	482.742	ppb	12.3433	2.6	1630.93
Sb 206.834	48.7132	ppb	4.9719	10.2	120.685
Se 196.026	97.7356	ppb	5.1462	5.3	66.3071
Sn 189.925	207.324	ppb	5.8707	2.8	305.829
Sr 216.596	97.9240	ppb	2.7194	2.8	2359.52
Ti 334.941	99.1439	ppb	2.2574	2.3	32778.6
Tl 190.794	42.4684	ppb	1.1537	2.7	27.4964
V 292.401	99.2520	ppb	2.6269	2.6	3741.34
Zn 206.200	100.430	ppb	2.7082	2.7	302.207

680-115692-a-41-g (Samp)

8/19/2015, 9:43:23 PM

Rack 2, Tube 21

Weight: 1

Volume: 1

Dilution: 1

<b>Label</b>	<b>Replicates</b>	<b>Concentration</b>
Ag 328.068	-0.8090u	0.4586
Al 308.215	97371.2	96279.0
As 188.980	204.966	200.036
B 249.678	-0.5561u	-0.3064u
Ba 389.178	1192.23	1182.08
Be 313.042	12.7320	12.6459
Ca 370.602	52876	52305
Cd 226.502	-3.2312	-3.7862
Co 228.615	105.473	105.573
Cr 267.716	419.034	415.593
Cu 324.754	164.614	171.390
Fe 271.441	516390	510634
K 766.491	4232.53	4187.23
Mg 279.078	9434.60	9352.98
Mn 257.610	12457.3	12325.8
Mo 202.032	26.3688	25.8363
Na 330.237	-429.928u	-373.160u
Ni 231.604	109.588	109.084
Pb 220.353	293.029	291.256
Sb 206.834	-22.5474u	-21.8382u
Se 196.026	11.9732	27.5978
Sn 189.925	24.6363	23.4365
Sr 216.596	232.608	230.396
Ti 334.941	1795.13	1785.23
Tl 190.794	22.9169u	21.0190u
V 292.401	769.573	763.183
Zn 206.200	557.372	556.192

<b>Label</b>	<b>Sol'n Conc.</b>	<b>Units</b>	<b>SD</b>	<b>%RSD</b>	<b>Int. (c/s)</b>
Ag 328.068	-0.3039	ppb	0.6718	221.1	-50.2077
Al 308.215	96991.1	ppb	617.129	0.6	825697

E08192015.wvq. All Data Report 8/20/2015, 3:03:52 PM

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
As 188.980	205.757	ppb	6.1555	3.0	224.911
B 249.678	0.0773	ppb	0.8896	1150.7	-1274.82
Ba 389.178	1189.07	ppb	6.0657	0.5	39519.3
Be 313.042	12.7022	ppb	0.0488	0.4	33311.5
Ca 370.602	52565	ppb	289.3	0.6	279911
Cd 226.502	-3.4354	ppb	0.3052	8.9	2844.93
Co 228.615	105.951	ppb	0.7428	0.7	2067.89
Cr 267.716	417.544	ppb	1.7657	0.4	34107.9
Cu 324.754	170.670	ppb	5.7297	3.4	12019.5
Fe 271.441	513783	ppb	2915.78	0.6	1387422
K 766.491	4217.21	ppb	25.9669	0.6	261225
Mg 279.078	9408.21	ppb	47.8411	0.5	48969.9
Mn 257.610	12394.5	ppb	65.9674	0.5	4204580
Mo 202.032	26.0117	ppb	0.3092	1.2	230.181
Na 330.237	-386.734	ppb	38.2585	9.9	-60.7449
Ni 231.604	109.539	ppb	0.4325	0.4	626.317
Pb 220.353	292.190	ppb	0.8902	0.3	1098.91
Sb 206.834	-19.4411	ppb	4.7792	24.6	3.4357
Se 196.026	18.7893	ppb	8.0006	42.6	5.6491
Sn 189.925	24.5457	ppb	1.0668	4.3	9.5095
Sr 216.596	231.736	ppb	1.1782	0.5	6815.06
Ti 334.941	1793.89	ppb	8.1104	0.5	592915
Tl 190.794	21.2556	ppb	1.5565	7.3	-77.8021
V 292.401	766.808	ppb	3.2807	0.4	29333.1
Zn 206.200	557.696	ppb	1.6895	0.3	1671.84

680-115692-a-41-gSD (Samp)

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Rack 2, Tube 22

Weight: 1

Volume: 1

Dilution: 1

Label	Replicates	Concentration	
Ag 328.068	0.0791	0.0303u	-1.0339u
Al 308.215	19498.8	19365.0	19411.9
As 188.980	39.9758	40.2462	41.3040
B 249.678	0.5851u	1.0541u	0.0238u
Ba 389.178	238.891	236.967	237.188
Be 313.042	2.5371	2.5231	2.5200
Ca 370.602	10541	10520	10531
Cd 226.502	-0.5113	-0.6880	-0.6276
Co 228.615	21.8764	22.4972	22.1914
Cr 267.716	83.4525	83.2843	83.2466
Cu 324.754	35.3256	35.0673	34.7990
Fe 271.441	105756	105201	105494
K 766.491	792.499	788.276	786.008
Mg 279.078	1921.97	1912.60	1918.10
Mn 257.610	2508.27	2505.42	2506.72
Mo 202.032	5.7411	6.3674	5.2439
Na 330.237	-283.150u	-203.492u	-144.234u
Ni 231.604	22.1856	23.6314	24.0842
Pb 220.353	56.5190	57.5642	56.8619
Sb 206.834	-4.4996u	-1.2670u	-10.3803u
Se 196.026	5.4419	4.9619	5.5160
Sn 189.925	5.8225	4.7546	4.0857
Sr 216.596	46.9424	46.5589	47.1835
Ti 334.941	364.782	363.956	364.727

E08192015.wvq. All Data Report 8/20/2015, 3:03:52 PM

Label	Replicates Concentration			
Tl 190.794	3.1812u	7.6782	4.8328u	
V 292.401	152.771	152.086	152.320	
Zn 206.200	114.110	111.621	112.236	

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.3082	ppb	0.6290	204.1	-24.6805
Al 308.215	19425.3	ppb	67.9044	0.3	165923
As 188.980	40.5086	ppb	0.7019	1.7	34.1270
B 249.678	0.5543	ppb	0.5158	93.1	-175.396
Ba 389.178	237.682	ppb	1.0533	0.4	7731.59
Be 313.042	2.5267	ppb	0.0091	0.4	6056.41
Ca 370.602	10531	ppb	10.29	0.1	55993
Cd 226.502	-0.6090	ppb	0.0898	14.7	664.908
Co 228.615	22.1883	ppb	0.3104	1.4	376.254
Cr 267.716	83.3278	ppb	0.1096	0.1	6842.98
Cu 324.754	35.0640	ppb	0.2633	0.8	2645.58
Fe 271.441	105484	ppb	277.745	0.3	284971
K 766.491	788.928	ppb	3.2942	0.4	49298.2
Mg 279.078	1917.56	ppb	4.7093	0.2	10069.4
Mn 257.610	2506.80	ppb	1.4272	0.1	850418
Mo 202.032	5.7841	ppb	0.5630	9.7	73.1622
Na 330.237	-210.292	ppb	69.7071	33.1	121.793
Ni 231.604	23.3004	ppb	0.9916	4.3	125.397
Pb 220.353	56.9817	ppb	0.5328	0.9	265.522
Sb 206.834	-5.3823	ppb	4.6203	85.8	30.1895
Se 196.026	5.3066	ppb	0.3008	5.7	-5.5784
Sn 189.925	4.8876	ppb	0.8760	17.9	-22.3579
Sr 216.596	46.8950	ppb	0.3150	0.7	1429.91
Ti 334.941	364.488	ppb	0.4621	0.1	120475
Tl 190.794	5.2307	ppb	2.2748	43.5	-55.1142
V 292.401	152.392	ppb	0.3483	0.2	5806.45
Zn 206.200	112.656	ppb	1.2960	1.2	339.045

680-115692-a-41-gPDS (Samp)    8/19/2015, 9:52:35 PM    Rack 2, Tube 23  
 Weight: 1    Volume: 1    Dilution: 1

Label	Replicates Concentration			
Ag 328.068	58.2289	58.0339	57.2840	
Al 308.215	96984.8	96803.4	96728.0	
As 188.980	291.918	299.470	297.890	
B 249.678	168.876	170.426	170.542	
Ba 389.178	1263.44	1263.47	1263.66	
Be 313.042	103.343	103.329	103.033	
Ca 370.602	61464	61031	61108	
Cd 226.502	85.2811	84.9814	84.9319	
Co 228.615	195.089	193.868	190.809	
Cr 267.716	505.817	505.462	503.843	
Cu 324.754	260.438	267.721	257.141	
Fe 271.441	516428	516032	516756	
K 766.491	13790.6	13821.9	13803.1	
Mg 279.078	17744.2	17743.0	17736.1	
Mn 257.610	13127.7	13151.5	13126.5	
Mo 202.032	115.545	116.878	114.959	
Na 330.237	7843.20	7824.92	7934.70	

E08192015.wvq. All Data Report 8/20/2015, 3:03:52 PM

Label	Replicates	Concentration	
Ni 231.604	193.112	199.019	197.970
Pb 220.353	380.253	379.318	382.448
Sb 206.834	77.7030	74.0688	74.2526
Se 196.026	96.9686	102.110	111.863
Sn 189.925	118.281	115.903	113.497
Sr 216.596	316.319	315.762	315.859
Ti 334.941	1869.21	1871.52	1867.58
Tl 190.794	37.8506	44.8578	43.0972
V 292.401	851.577	851.872	851.701
Zn 206.200	644.648	640.530	646.544

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	57.8489	ppb	0.4989	0.9	5469.12
Al 308.215	96838.7	ppb	131.992	0.1	824417
As 188.980	296.426	ppb	3.9834	1.3	332.104
B 249.678	169.948	ppb	0.9300	0.5	2004.22
Ba 389.178	1263.52	ppb	0.1192	0.0	42002.5
Be 313.042	103.235	ppb	0.1751	0.2	275254
Ca 370.602	61201	ppb	230.9	0.4	327642
Cd 226.502	85.0648	ppb	0.1889	0.2	10671.3
Co 228.615	193.255	ppb	2.2048	1.1	3790.76
Cr 267.716	505.041	ppb	1.0523	0.2	41189.9
Cu 324.754	261.767	ppb	5.4135	2.1	18215.5
Fe 271.441	516405	ppb	362.176	0.1	1394518
K 766.491	13805.2	ppb	15.7855	0.1	853927
Mg 279.078	17741.1	ppb	4.3689	0.0	92717.3
Mn 257.610	13135.3	ppb	14.0894	0.1	4455834
Mo 202.032	115.794	ppb	0.9834	0.8	1043.40
Na 330.237	7867.61	ppb	58.8186	0.7	627.461
Ni 231.604	196.700	ppb	3.1517	1.6	1093.75
Pb 220.353	380.673	ppb	1.6063	0.4	1386.71
Sb 206.834	75.3415	ppb	2.0472	2.7	160.487
Se 196.026	103.647	ppb	7.5654	7.3	71.9290
Sn 189.925	115.893	ppb	2.3919	2.1	157.605
Sr 216.596	315.980	ppb	0.2973	0.1	8790.32
Ti 334.941	1869.44	ppb	1.9775	0.1	617898
Tl 190.794	41.9352	ppb	3.6453	8.7	-38.7932
V 292.401	851.716	ppb	0.1483	0.0	32556.7
Zn 206.200	643.908	ppb	3.0746	0.5	1929.83

680-115692-a-41-h ms (Samp)    8/19/2015, 9:57:12 PM    Rack 2, Tube 24  
 Weight: 1    Volume: 1    Dilution: 1

Label	Replicates	Concentration	
Ag 328.068	45.6872	45.5572	48.7275
Al 308.215	94947.6	94657.6	95348.1
As 188.980	311.539	301.772	309.870
B 249.678	164.052	163.309	164.872
Ba 389.178	1414.00	1405.56	1421.38
Be 313.042	58.2037	57.9163	58.5306
Ca 370.602	65488	65345	66064
Cd 226.502	44.0450	43.6373	44.1540
Co 228.615	136.623	137.312	134.502
Cr 267.716	519.536	516.398	520.812

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Label	Replicates	Concentration	
Cu 324.754	294.468	292.811	305.793
Fe 271.441	437764	435263	439024
K 766.491	9361.15	9302.12	9378.50
Mg 279.078	14426.2	14313.4	14500.3
Mn 257.610	10918.9	10827.3	10914.7
Mo 202.032	110.331	110.460	110.889
Na 330.237	4060.38	4166.08	4161.93
Ni 231.604	202.530	201.352	204.849
Pb 220.353	755.640	749.801	754.503
Sb 206.834	18.9150	17.6325	23.2759
Se 196.026	109.697	94.3584	94.8150
Sn 189.925	205.371	205.406	205.598
Sr 216.596	367.097	365.051	366.566
Ti 334.941	2193.26	2178.07	2204.09
Tl 190.794	51.0311	53.3674	55.0606
V 292.401	739.175	734.839	739.723
Zn 206.200	569.665	565.773	568.714

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	46.6573	ppb	1.7940	3.8	4407.07
Al 308.215	94984.4	ppb	346.702	0.4	808622
As 188.980	307.727	ppb	5.2242	1.7	346.398
B 249.678	164.078	ppb	0.7820	0.5	2101.65
Ba 389.178	1413.65	ppb	7.9189	0.6	46890.7
Be 313.042	58.2169	ppb	0.3074	0.5	154938
Ca 370.602	65632	ppb	380.9	0.6	354197
Cd 226.502	43.9455	ppb	0.2723	0.6	6567.68
Co 228.615	136.146	ppb	1.4644	1.1	2677.23
Cr 267.716	518.915	ppb	2.2713	0.4	42267.9
Cu 324.754	297.691	ppb	7.0654	2.4	20627.3
Fe 271.441	437350	ppb	1914.41	0.4	1181055
K 766.491	9347.25	ppb	40.0408	0.4	578350
Mg 279.078	14413.3	ppb	94.1239	0.7	75326.1
Mn 257.610	10886.9	ppb	51.6818	0.5	3693186
Mo 202.032	110.560	ppb	0.2921	0.3	1001.07
Na 330.237	4129.46	ppb	59.8640	1.4	347.782
Ni 231.604	202.910	ppb	1.7797	0.9	1119.80
Pb 220.353	753.314	ppb	3.0957	0.4	2582.46
Sb 206.834	19.9411	ppb	2.9583	14.8	70.5351
Se 196.026	99.6236	ppb	8.7271	8.8	68.5250
Sn 189.925	205.459	ppb	0.1224	0.1	302.803
Sr 216.596	366.238	ppb	1.0618	0.3	9762.10
Ti 334.941	2191.81	ppb	13.0719	0.6	724413
Tl 190.794	53.1530	ppb	2.0233	3.8	-8.2691
V 292.401	737.912	ppb	2.6757	0.4	28200.8
Zn 206.200	568.051	ppb	2.0293	0.4	1702.08

Cont Calib Verif (CCV)      8/19/2015, 10:01:48 PM      Rack 2, Tube 25  
 Weight: 1      Volume: 1      Dilution: 1

Label	Replicates	Concentration	
Ag 328.068	508.911	494.827	498.148
Al 308.215	4819.95	4825.70	4839.35
As 188.980	496.954	494.421	490.346

Label	Replicates	Concentration					
B 249.678	467.296	473.952	475.122				
Ba 389.178	4869.14	4890.49	4879.03				
Be 313.042	479.430	481.659	482.929				
Ca 370.602	5108	5131	5157				
Cd 226.502	486.551	489.574	491.979				
Co 228.615	483.026	485.720	485.931				
Cr 267.716	4938.83	4958.93	4975.10				
Cu 324.754	5113.91	4939.76	4885.18				
Fe 271.441	4758.13	4790.44	4790.74				
K 766.491	9757.05	9753.39	9738.85				
Mg 279.078	4782.68	4810.44	4828.39				
Mn 257.610	4853.16	4866.36	4890.11				
Mo 202.032	488.923	492.949	494.223				
Na 330.237	6745.32	6804.12	6895.77				
Ni 231.604	2403.78	2415.77	2425.44				
Pb 220.353	483.316	488.850	493.055				
Sb 206.834	983.732	988.025	1000.26				
Se 196.026	4822.01	4825.31	4824.07				
Sn 189.925	4952.28	4761.29	4747.92				
Sr 216.596	2417.03	2424.85	2435.02				
Ti 334.941	477.491	478.545	480.570				
Tl 190.794	4891.25	4898.05	4920.39				
V 292.401	4815.39	4833.53	4840.86				
Zn 206.200	2428.28	2444.34	2448.27				

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)	QC Value	
Ag 328.068	500.629	ppb	7.3625	1.5	47468.8	100.12576	
Al 308.215	4828.33	ppb	9.9693	0.2	42426.0	96.56664	
As 188.980	493.907	ppb	3.3337	0.7	571.452	98.78142	
B 249.678	472.124	ppb	4.2211	0.9	9228.58	94.42470	
Ba 389.178	4879.55	ppb	10.6855	0.2	161060	97.59106	
Be 313.042	481.339	ppb	1.7709	0.4	1285968	96.26788	
Ca 370.602	5132	ppb	24.67	0.5	28918	102.63885	
Cd 226.502	489.368	ppb	2.7197	0.6	43307.3	97.87358	
Co 228.615	484.892	ppb	1.6196	0.3	9512.87	96.97849	
Cr 267.716	4957.62	ppb	18.1689	0.4	401032	99.15235	
Cu 324.754	4979.62	ppb	119.461	2.4	338691	99.59233	
Fe 271.441	4779.77	ppb	18.7421	0.4	13240.9	95.59540	
K 766.491	9749.76	ppb	9.6235	0.1	603231	97.49760	
Mg 279.078	4807.17	ppb	23.0318	0.5	25166.0	96.14335	
Mn 257.610	4869.88	ppb	18.7227	0.4	1651127	97.39757	
Mo 202.032	492.032	ppb	2.7666	0.6	4478.45	98.40634	
Na 330.237	6815.07	ppb	75.8237	1.1	746.691	90.86757	
Ni 231.604	2415.00	ppb	10.8471	0.4	12943.7	96.59985	
Pb 220.353	488.407	ppb	4.8846	1.0	1652.73	97.68144	
Sb 206.834	990.673	ppb	8.5767	0.9	1757.45	99.06728	
Se 196.026	4823.80	ppb	1.6639	0.0	3744.45	96.47594	
Sn 189.925	4820.50	ppb	114.323	2.4	7784.55	96.40998	
Sr 216.596	2425.64	ppb	9.0219	0.4	56776.6	97.02542	
Ti 334.941	478.869	ppb	1.5647	0.3	158264	95.77377	
Tl 190.794	4903.23	ppb	15.2456	0.3	9058.02	98.06466	
V 292.401	4829.93	ppb	13.1132	0.3	184563	96.59856	
Zn 206.200	2440.30	ppb	10.5893	0.4	7283.94	97.61193	

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Cont Calib Blank (CCB)		8/19/2015, 10:06:23 PM		Rack 2, Tube 26		
Weight: 1		Volume: 1		Dilution: 1		
Label	Replicates	Concentration				
Ag 328.068	0.2419	-0.0286u	-0.1163u			
Al 308.215	-20.7703u	-20.0401u	-16.8110u			
As 188.980	-2.9447u	-0.8994u	-2.2755u			
B 249.678	4.9020	3.8200	3.6357			
Ba 389.178	2.1888	1.7856	1.5509			
Be 313.042	0.0207	0.0166	0.0183			
Ca 370.602	5.287	7.018	5.802			
Cd 226.502	0.4114	0.3253	0.3813			
Co 228.615	0.4929	0.7088	0.2584			
Cr 267.716	-0.1046u	-0.2941u	-0.0923u			
Cu 324.754	0.0640	1.3232	-0.0265u			
Fe 271.441	-7.6050u	-9.0574u	-11.5263u			
K 766.491	-0.3237u	-0.6806u	-0.6986u			
Mg 279.078	-3.8899u	-0.8452u	-3.6076u			
Mn 257.610	0.0162	0.0111	0.1160			
Mo 202.032	0.4766	-0.3250u	0.4629			
Na 330.237	-194.381u	-192.184u	-95.2778u			
Ni 231.604	2.1763	2.2058	1.6689			
Pb 220.353	-1.3470u	-2.3716u	0.4748			
Sb 206.834	-3.5135u	-7.1597u	-6.6030u			
Se 196.026	9.5069	3.8531	0.5632			
Sn 189.925	-0.1803u	0.5072	1.4313			
Sr 216.596	0.6185	-0.0777u	0.0267			
Ti 334.941	0.0367	0.0306	0.0710			
Tl 190.794	-1.3455u	4.0639	1.4608			
V 292.401	-0.0138u	0.1235	0.4599			
Zn 206.200	-0.0096u	-0.7114u	0.0405			
Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)	QC Value
Ag 328.068	0.0323	ppb	0.1867	577.4	14.5813	0.03234
Al 308.215	-19.2071	ppb	2.1070	11.0	527.976	-19.20710
As 188.980	-2.0399	ppb	1.0428	51.1	-14.9922	-2.03986
B 249.678	4.1192	ppb	0.6841	16.6	175.147	4.11925
Ba 389.178	1.8418	ppb	0.3226	17.5	-151.879	1.84179
Be 313.042	0.0186	ppb	0.0021	11.1	-661.882	0.01856
Ca 370.602	6.036	ppb	0.8892	14.7	-1.478	6.03578
Cd 226.502	0.3727	ppb	0.0437	11.7	123.911	0.37265
Co 228.615	0.4867	ppb	0.2253	46.3	-61.7837	0.48672
Cr 267.716	-0.1637	ppb	0.1131	69.1	30.1731	-0.16368
Cu 324.754	0.4536	ppb	0.7545	166.3	252.525	0.45358
Fe 271.441	-9.3962	ppb	1.9825	21.1	129.951	-9.39624
K 766.491	-0.5677	ppb	0.2114	37.2	493.859	-0.56765
Mg 279.078	-2.7809	ppb	1.6823	60.5	95.1337	-2.78090
Mn 257.610	0.0478	ppb	0.0592	123.8	53.1449	0.04779
Mo 202.032	0.2048	ppb	0.4589	224.0	29.3836	0.20484
Na 330.237	-160.614	ppb	56.5935	35.2	169.287	-160.61401
Ni 231.604	2.0170	ppb	0.3018	15.0	1.3305	2.01696
Pb 220.353	-1.0813	ppb	1.4417	133.3	58.9988	-1.08128
Sb 206.834	-5.7587	ppb	1.9643	34.1	30.5044	-5.75874
Se 196.026	4.6410	ppb	4.5236	97.5	-6.2683	4.64104
Sn 189.925	0.5861	ppb	0.8087	138.0	-29.3310	0.58608
Sr 216.596	0.1891	ppb	0.3755	198.5	63.1904	0.18913

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<b>Label</b>	<b>Sol'n Conc.</b>	<b>Units</b>	<b>SD</b>	<b>%RSD</b>	<b>Int. (c/s)</b>	<b>QC Value</b>
Ti 334.941	0.0461	ppb	0.0218	47.3	20.2953	0.04610
Tl 190.794	1.3931	ppb	2.7053	194.2	-48.6330	1.39310
V 292.401	0.1898	ppb	0.02437	128.4	-21.4781	0.18985
Zn 206.200	-0.2268	ppb	0.4204	185.3	0.9767	-0.22685

680-115692-a-41-i ms (Samp) 8/19/2015, 10:10:58 PM

## Rack 2, Tube 27

**Weight:** 1

Volume: 1

### Dilution: 1

Label	Replicates	Concentration	
Ag 328.068	42.3853	42.3356	42.4159
Al 308.215	80083.2	79817.2	80013.7
As 188.980	247.380	247.437	246.711
B 249.678	160.499	159.480	159.353
Ba 389.178	1466.75	1463.99	1466.81
Be 313.042	55.4294	55.4030	55.4263
Ca 370.602	58611	58486	58487
Cd 226.502	45.8835	46.0098	45.9491
Co 228.615	120.771	124.151	122.925
Cr 267.716	330.532	331.391	330.616
Cu 324.754	292.922	295.466	291.864
Fe 271.441	294638	294464	294766
K 766.491	8839.46	8815.79	8811.64
Mg 279.078	14029.5	13995.6	14025.2
Mn 257.610	12748.2	12791.6	12783.5
Mo 202.032	112.792	112.247	113.970
Na 330.237	3961.97	4124.34	4089.32
Ni 231.604	182.246	180.657	180.636
Pb 220.353	798.365	798.498	793.096
Sb 206.834	19.8145	24.2651	19.8378
Se 196.026	94.5101	102.637	97.3156
Sn 189.925	217.810	217.807	215.953
Sr 216.596	369.186	369.884	370.509
Ti 334.941	1852.66	1850.52	1853.19
Tl 190.794	50.4689	52.9073	51.3972
V 292.401	603.619	605.284	604.125
Zn 206.200	553.177	553.450	551.755

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	42.3789	ppb	0.0405	0.1	4038.61
Al 308.215	79971.4	ppb	137.982	0.2	680911
As 188.980	247.176	ppb	0.4040	0.2	276.402
B 249.678	159.777	ppb	0.6279	0.4	2398.97
Ba 389.178	1465.85	ppb	1.6110	0.1	48499.0
Be 313.042	55.4196	ppb	0.0145	0.0	147448
Ca 370.602	58528	ppb	72.09	0.1	318234
Cd 226.502	45.9475	ppb	0.0632	0.1	5895.74
Co 228.615	122.616	ppb	1.7114	1.4	2402.28
Cr 267.716	330.846	ppb	0.4731	0.1	27012.8
Cu 324.754	293.417	ppb	1.8512	0.6	20281.8
Fe 271.441	294622	ppb	151.523	0.1	795679
K 766.491	8822.30	ppb	15.0107	0.2	545898
Mg 279.078	14016.8	ppb	18.4733	0.1	73178.1
Mn 257.610	12774.4	ppb	23.0907	0.2	4332419
Mo 202.032	113.003	ppb	0.8808	0.8	1032.25

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Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Na 330.237	4058.55	ppb	85.4479	2.1	400.229
Ni 231.604	181.180	ppb	0.9233	0.5	989.805
Pb 220.353	796.653	ppb	3.0815	0.4	2700.63
Sb 206.834	21.3058	ppb	2.5629	12.0	72.6720
Se 196.026	98.1543	ppb	4.1280	4.2	69.2046
Sn 189.925	217.190	ppb	1.0714	0.5	321.821
Sr 216.596	369.860	ppb	0.6621	0.2	9478.58
Ti 334.941	1852.12	ppb	1.4138	0.1	612137
Tl 190.794	51.5912	ppb	1.2307	2.4	12.0240
V 292.401	604.343	ppb	0.8534	0.1	23091.1
Zn 206.200	552.794	ppb	0.9099	0.2	1657.84

680-115692-a-42-c (Samp) 8/19/2015, 10:15:33 PM

Weight: 1 Volume: 1

Rack 2, Tube 28

Dilution: 1

Label	Replicates	Concentration				
Ag 328.068	-0.3860u	-0.6885u	-0.4051u			
Al 308.215	121802	121004	120170			
As 188.980	280.150	265.708	273.636			
B 249.678	-11.4246u	-12.9781u	-10.1858u			
Ba 389.178	1600.71	1594.03	1580.85			
Be 313.042	17.6460	17.6153	17.4876			
Ca 370.602	68479	68321	67643			
Cd 226.502	-3.7348	-4.2081	-4.0428			
Co 228.615	144.987	146.511	148.455			
Cr 267.716	497.922	496.005	492.909			
Cu 324.754	83.5706	83.8029	81.8231			
Fe 271.441	728480	725799	721824			
K 766.491	4380.05	4358.17	4336.86			
Mg 279.078	18246.5	18211.9	18062.0			
Mn 257.610	15347.1	15244.9	15258.8			
Mo 202.032	10.2576	9.7401	9.3926			
Na 330.237	-1086.90u	-918.367u	-816.390u			
Ni 231.604	68.6842	64.5879	65.2362			
Pb 220.353	419.222	410.063	408.453			
Sb 206.834	-29.2396u	-19.3619u	-22.9461u			
Se 196.026	21.5411	18.1059	27.0431			
Sn 189.925	27.6345	25.9074	24.4525			
Sr 216.596	110.733	108.613	108.169			
Ti 334.941	1200.40	1195.83	1189.96			
Tl 190.794	35.6019u	35.3673u	31.3826u			
V 292.401	1083.45	1079.81	1073.93			
Zn 206.200	734.036	734.363	727.656			

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.4932	ppb	0.1694	34.3	-86.5189
Al 308.215	120992	ppb	815.650	0.7	1029876
As 188.980	273.165	ppb	7.2322	2.6	302.229
B 249.678	-11.5295	ppb	1.3991	12.1	-2064.23
Ba 389.178	1591.87	ppb	10.1052	0.6	53022.3
Be 313.042	17.5830	ppb	0.0840	0.5	46388.4
Ca 370.602	68147	ppb	443.9	0.7	360464
Cd 226.502	-3.9952	ppb	0.2402	6.0	4060.52
Co 228.615	146.651	ppb	1.7382	12	2843.59

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Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Cr 267.716	495.612	ppb	2.5296	0.5	40521.0
Cu 324.754	83.0655	ppb	1.0823	1.3	6143.74
Fe 271.441	725368	ppb	3349.15	0.5	1958720
K 766.491	4358.36	ppb	21.5956	0.5	269950
Mg 279.078	18173.5	ppb	98.0490	0.5	94885.0
Mn 257.610	15283.6	ppb	55.4755	0.4	5185144
Mo 202.032	9.7968	ppb	0.4353	4.4	69.6602
Na 330.237	-940.551	ppb	136.611	14.5	-193.774
Ni 231.604	66.1694	ppb	2.2018	3.3	413.531
Pb 220.353	412.580	ppb	5.8089	1.4	1526.85
Sb 206.834	-23.8492	ppb	5.0004	21.0	-6.6701
Se 196.026	22.2300	ppb	4.5083	20.3	7.8394
Sn 189.925	25.9981	ppb	1.5930	6.1	11.8630
Sr 216.596	109.172	ppb	1.3705	1.3	4494.11
Ti 334.941	1195.40	ppb	5.2329	0.4	395183
Tl 190.794	34.1172	ppb	2.3712	7.0	-83.0226
V 292.401	1079.06	ppb	4.8005	0.4	41288.9
Zn 206.200	732.018	ppb	3.7811	0.5	2194.31

680-115692-a-43-c (Sam)

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Rack 2, Tube 29

**Weight:** 1

Volume: 1

**Dilution: 1**

Label	Replicates	Concentration	
Ag 328.068	-2.8685u	-2.8893u	-2.7570u
Al 308.215	117892	118240	118624
As 188.980	253.603	251.585	251.773
B 249.678	-0.1689u	-0.3586u	-1.6444u
Ba 389.178	6042.57	6094.53	6089.79
Be 313.042	19.3365	19.4821	19.4898
Ca 370.602	112220	112481	112353
Cd 226.502	-3.3105	-3.1152	-3.0374
Co 228.615	194.787	193.580	186.021
Cr 267.716	503.700	508.891	509.127
Cu 324.754	86.5994	87.3294	83.3845
Fe 271.441	662498	666815	667274
K 766.491	4980.87	5027.39	5028.94
Mg 279.078	25555.6	25763.3	25730.4
Mn 257.610	30249.9x	30354.4x	30271.3x
Mo 202.032	11.0541	12.2235	11.5457
Na 330.237	-861.283u	-898.272u	-894.674u
Ni 231.604	79.3970	76.1012	78.8309
Pb 220.353	459.239	462.014	463.918
Sb 206.834	-24.9837u	-33.5899u	-29.4301u
Se 196.026	29.2672	16.4930	20.7952
Sn 189.925	26.0715	22.6475	25.1812
Sr 216.596	232.232	235.220	234.962
Ti 334.941	3148.05	3155.98	3170.78
Tl 190.794	31.2976u	33.4937u	36.4240u
V 292.401	1093.43	1102.55	1100.60
Zn 206.200	599.600	598.373	600.650

<b>Label</b>	<b>Sol'n Conc.</b>	<b>Units</b>	<b>SD</b>	<b>%RSD</b>	<b>Int. (c/s)</b>
Ag 328.068	-2.8383b	ppb	0.0711	2.5	-215.686
Al 308.215	118252b	ppb	366.038	0.3	1006567

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Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
As 188.980	252.320b	ppb	1.1148	0.4	278.260
B 249.678	-0.7239b	ppb	0.8027	110.9	-1695.06
Ba 389.178	6075.63b	ppb	28.7252	0.5	201152
Be 313.042	19.4361b	ppb	0.0863	0.4	51355.8
Ca 370.602	112351b	ppb	130.2	0.1	608438
Cd 226.502	-3.1543b	ppb	0.1407	4.5	3768.16
Co 228.615	191.463b	ppb	4.7513	2.5	3802.81
Cr 267.716	507.240b	ppb	3.0673	0.6	41553.1
Cu 324.754	85.7711b	ppb	2.0988	2.4	6303.48
Fe 271.441	665529b	ppb	2634.98	0.4	1797161
K 766.491	5012.40b	ppb	27.3168	0.5	310381
Mg 279.078	25683.1b	ppb	111.626	0.4	133740
Mn 257.610	30291.9xb	ppb	55.1972	0.2	10273140
Mo 202.032	11.6077b	ppb	0.5872	5.1	89.7700
Na 330.237	-884.743b	ppb	20.3963	2.3	-164.527
Ni 231.604	78.1097b	ppb	1.7623	2.3	471.690
Pb 220.353	461.724b	ppb	2.3532	0.5	1680.65
Sb 206.834	-29.3345b	ppb	4.3039	14.7	-14.3619
Se 196.026	22.1851b	ppb	6.4995	29.3	14.0966
Sn 189.925	24.6334b	ppb	1.7765	7.2	9.6508
Sr 216.596	234.138b	ppb	1.6553	0.7	7266.03
Ti 334.941	3158.27b	ppb	11.5327	0.4	1043850
Tl 190.794	33.7384b	ppb	2.5719	7.6	-61.2113
V 292.401	1098.86b	ppb	4.8054	0.4	42066.9
Zn 206.200	599.541b	ppb	1.1394	0.2	1796.66

680-115692-a-44-c (Samp)      8/19/2015, 10:24:43 PM      Rack 2, Tube 30  
 Weight: 1      Volume: 1      Dilution: 1

Label	Replicates	Concentration
Ag 328.068	-1.3360u	-0.7912u
Al 308.215	130464	129243
As 188.980	205.070	197.839
B 249.678	15.1136u	16.1131u
Ba 389.178	1011.71	1002.54
Be 313.042	11.3753	11.2469
Ca 370.602	118021	117021
Cd 226.502	-2.6501	-2.6289
Co 228.615	76.8864	78.0264
Cr 267.716	524.672	519.173
Cu 324.754	206.862	208.236
Fe 271.441	435444	433200
K 766.491	5743.56	5701.70
Mg 279.078	13017.3	12893.7
Mn 257.610	14091.8	14161.7
Mo 202.032	22.2389	21.4895
Na 330.237	-431.285u	-543.536u
Ni 231.604	113.036	110.707
Pb 220.353	220.931	220.500
Sb 206.834	-10.9232u	-4.1041u
Se 196.026	10.6663	13.7566
Sn 189.925	22.9674	25.4111
Sr 216.596	319.058	315.435
Ti 334.941	4606.80	4550.61

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Label	Replicates Concentration			
Tl 190.794	15.9243u	26.3213u	21.9387u	
V 292.401	780.338	775.070	778.169	
Zn 206.200	434.701	431.669	436.290	

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.7472	ppb	0.6120	81.9	-70.1423
Al 308.215	129949	ppb	632.590	0.5	1105973
As 188.980	202.855	ppb	4.3532	2.1	222.402
B 249.678	16.1465	ppb	1.0499	6.5	-751.279
Ba 389.178	1007.50	ppb	4.6333	0.5	33463.7
Be 313.042	11.3123	ppb	0.0642	0.6	29635.5
Ca 370.602	117554	ppb	503.4	0.4	643197
Cd 226.502	-2.6061	ppb	0.0589	2.3	2430.66
Co 228.615	77.3047	ppb	0.6277	0.8	1607.20
Cr 267.716	522.126	ppb	2.7721	0.5	42558.5
Cu 324.754	206.650	ppb	1.7021	0.8	14433.3
Fe 271.441	434041	ppb	1222.50	0.3	1172112
K 766.491	5717.41	ppb	22.7967	0.4	353963
Mg 279.078	12965.2	ppb	64.0752	0.5	67562.0
Mn 257.610	14154.4	ppb	59.3399	0.4	4800918
Mo 202.032	21.9464	ppb	0.4009	1.8	198.279
Na 330.237	-490.172	ppb	56.3291	11.5	-36.8439
Ni 231.604	112.938	ppb	2.1844	1.9	637.136
Pb 220.353	222.120	ppb	2.4424	1.1	854.860
Sb 206.834	-9.4919	ppb	4.8338	50.9	23.4249
Se 196.026	12.9338	ppb	1.9881	15.4	2.3872
Sn 189.925	25.6865	ppb	2.8666	11.2	11.3592
Sr 216.596	318.189	ppb	2.4394	0.8	8634.16
Ti 334.941	4578.43	ppb	28.1020	0.6	1513107
Tl 190.794	21.3948	ppb	5.2198	24.4	-63.7855
V 292.401	777.859	ppb	2.6475	0.3	29779.8
Zn 206.200	434.220	ppb	2.3478	0.5	1300.41

680-115692-a-45-c (Samp)      8/19/2015, 10:29:18 PM      Rack 2, Tube 31  
 Weight: 1      Volume: 1      Dilution: 1

Label	Replicates Concentration			
Ag 328.068	-1.1251u	-1.0691u	-0.5761u	
Al 308.215	141006	144048	140745	
As 188.980	189.705	179.348	181.846	
B 249.678	6.5766u	5.3807u	6.8969u	
Ba 389.178	1246.54	1273.32	1249.69	
Be 313.042	8.6928	8.8950	8.7165	
Ca 370.602	89048	89719	89068	
Cd 226.502	-2.2260	-1.6298	-2.1720	
Co 228.615	81.8384	83.3740	80.7171	
Cr 267.716	530.363	543.076	531.888	
Cu 324.754	202.366	200.217	202.527	
Fe 271.441	384316	392514	383496	
K 766.491	5113.51	5182.48	5107.69	
Mg 279.078	17536.4	17908.2	17529.7	
Mn 257.610	15804.1	16052.4	15417.2	
Mo 202.032	19.2388	20.8738	20.0360	
Na 330.237	-612.598u	-493.121u	-606.673u	

E08192015.wvq. All Data Report 8/20/2015, 3:03:52 PM

Label	Replicates Concentration		
Ni 231.604	94.8224	93.9645	93.7526
Pb 220.353	281.399	281.212	276.202
Sb 206.834	-11.9562u	-18.9697u	-9.2066u
Se 196.026	28.0232	22.8350	16.1629
Sn 189.925	27.6262	22.4174	26.6151
Sr 216.596	245.975	254.194	246.858
Ti 334.941	3001.82	3072.64	3005.17
Tl 190.794	20.3669u	22.5173u	18.6741u
V 292.401	689.900	711.466	690.705
Zn 206.200	460.589	469.650	457.764

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.9234	ppb	0.3021	32.7	-66.0738
Al 308.215	141933	ppb	1836.29	1.3	1207866
As 188.980	183.633	ppb	5.4051	2.9	200.209
B 249.678	6.2847	ppb	0.7991	12.7	-815.499
Ba 389.178	1256.52	ppb	14.6329	1.2	41664.7
Be 313.042	8.7681	ppb	0.1105	1.3	22818.1
Ca 370.602	89278	ppb	381.7	0.4	486954
Cd 226.502	-2.0093	ppb	0.3298	16.4	2207.71
Co 228.615	81.9765	ppb	1.3338	1.6	1644.80
Cr 267.716	535.109	ppb	6.9414	1.3	43598.2
Cu 324.754	201.703	ppb	1.2893	0.6	14079.1
Fe 271.441	386775	ppb	4986.76	1.3	1044491
K 766.491	5134.56	ppb	41.6038	0.8	317933
Mg 279.078	17658.1	ppb	216.614	1.2	92143.7
Mn 257.610	15757.9	ppb	320.094	2.0	5344375
Mo 202.032	20.0495	ppb	0.8176	4.1	184.153
Na 330.237	-570.797	ppb	67.3348	11.8	-24.0966
Ni 231.604	94.1798	ppb	0.5665	0.6	532.030
Pb 220.353	279.604	ppb	2.9481	1.1	1035.56
Sb 206.834	-13.3775	ppb	5.0344	37.6	18.2186
Se 196.026	22.3404	ppb	5.9456	26.6	10.6864
Sn 189.925	25.5529	ppb	2.7621	10.8	11.1428
Sr 216.596	249.009	ppb	4.5120	1.8	6891.24
Ti 334.941	3026.54	ppb	39.9576	1.3	1000266
Tl 190.794	20.5194	ppb	1.9261	9.4	-56.9298
V 292.401	697.357	ppb	12.2250	1.8	26679.1
Zn 206.200	462.668	ppb	6.2096	1.3	1385.68

680-115692-a-46-c (Samp)      8/19/2015, 10:33:53 PM      Rack 2, Tube 32  
 Weight: 1      Volume: 1      Dilution: 1

Label	Replicates Concentration		
Ag 328.068	-0.2084u	-1.0902u	-1.3047u
Al 308.215	100034	101520	100725
As 188.980	200.356	206.477	203.683
B 249.678	-1.3780u	-2.1148u	-2.3479u
Ba 389.178	1321.17	1334.31	1326.63
Be 313.042	13.4673	13.6306	13.5926
Ca 370.602	57295	58233	58083
Cd 226.502	-3.2801	-2.8067	-3.1316
Co 228.615	129.760	126.618	126.557
Cr 267.716	419.785	426.347	424.634

E08192015.wvq. All Data Report 8/20/2015, 3:03:52 PM

Label	Replicates	Concentration				
Cu 324.754	193.395	187.357	192.128			
Fe 271.441	505132	512598	510112			
K 766.491	3469.96	3516.89	3491.48			
Mg 279.078	8645.07	8763.60	8735.49			
Mn 257.610	11955.5	12115.8	12069.3			
Mo 202.032	12.2359	13.4145	13.0694			
Na 330.237	-482.401u	-664.384u	-544.404u			
Ni 231.604	79.2460	80.5903	80.6986			
Pb 220.353	352.458	355.468	354.928			
Sb 206.834	-20.0967u	-21.2138u	-20.6886u			
Se 196.026	20.9613	20.1431	24.0198			
Sn 189.925	32.4173	33.6549	30.5053			
Sr 216.596	210.958	215.055	212.686			
Ti 334.941	1837.08	1869.25	1857.06			
Tl 190.794	20.0503u	25.7351u	25.0118u			
V 292.401	747.920	757.104	755.306			
Zn 206.200	646.608	652.456	651.640			

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.8678	ppb	0.5810	67.0	-104.210
Al 308.215	100760	ppb	743.832	0.7	857744
As 188.980	203.505	ppb	3.0645	1.5	222.306
B 249.678	-1.9469	ppb	0.5063	26.0	-1302.22
Ba 389.178	1327.37	ppb	6.6011	0.5	44083.8
Be 313.042	13.5635	ppb	0.0855	0.6	35618.7
Ca 370.602	57870	ppb	503.7	0.9	309356
Cd 226.502	-3.0728	ppb	0.2421	7.9	2850.33
Co 228.615	127.645	ppb	1.8320	1.4	2499.86
Cr 267.716	423.589	ppb	3.4034	0.8	34593.1
Cu 324.754	190.960	ppb	3.1840	1.7	13396.7
Fe 271.441	509281	ppb	3801.80	0.7	1375268
K 766.491	3492.78	ppb	23.4899	0.7	216442
Mg 279.078	8714.72	ppb	61.9348	0.7	45337.5
Mn 257.610	12046.9	ppb	82.4385	0.7	4086700
Mo 202.032	12.9066	ppb	0.6059	4.7	111.731
Na 330.237	-563.730	ppb	92.5182	16.4	-73.8513
Ni 231.604	80.1783	ppb	0.8092	1.0	468.307
Pb 220.353	354.285	ppb	1.6047	0.5	1299.55
Sb 206.834	-20.6663	ppb	0.5589	2.7	1.8741
Se 196.026	21.7081	ppb	2.0434	9.4	7.8196
Sn 189.925	32.1925	ppb	1.5868	4.9	21.9062
Sr 216.596	212.900	ppb	2.0566	1.0	6363.93
Ti 334.941	1854.46	ppb	16.2412	0.9	612931
Tl 190.794	23.5991	ppb	3.0945	13.1	-72.9770
V 292.401	753.443	ppb	4.8672	0.6	28824.8
Zn 206.200	650.235	ppb	3.1674	0.5	1949.49

680-115692-a-47-c (Samp)      8/19/2015, 10:38:28 PM      Rack 2, Tube 33  
 Weight: 1      Volume: 1      Dilution: 1

Label	Replicates	Concentration				
Ag 328.068	-7.0945u	-6.9022u	-6.7783u			
Al 308.215	95594.5	95003.0	94699.5			
As 188.980	280.524	278.280	276.909			

Label	Replicates	Concentration			
B 249.678	-21.2978u	-19.4928u	-19.3229u		
Ba 389.178	5933.13	5891.78	5871.21		
Be 313.042	20.3395	20.2001	20.1256		
Ca 370.602	20958	20806	20673		
Cd 226.502	-3.9405	-3.9121	-3.8975		
Co 228.615	308.485	288.785	296.995		
Cr 267.716	336.503	334.475	332.207		
Cu 324.754	66.4174	67.8051	67.8867		
Fe 271.441	587129	582752	580907		
K 766.491	1526.96	1518.97	1509.99		
Mg 279.078	8929.58	8860.60	8822.69		
Mn 257.610	40956.0x	40622.0x	40400.6x		
Mo 202.032	6.5388	6.9181	6.9113		
Na 330.237	-931.298u	-790.771u	-839.749u		
Ni 231.604	77.0376	74.4292	75.4464		
Pb 220.353	563.450	562.613	556.087		
Sb 206.834	-29.8859u	-28.2866u	-28.1503u		
Se 196.026	22.1964	17.2143	24.7675		
Sn 189.925	18.4706	24.1126	19.4072		
Sr 216.596	47.2736	46.1052	45.3498		
Ti 334.941	685.386	679.516	676.698		
Tl 190.794	33.5482	33.9112	30.3505		
V 292.401	853.131	849.438	843.502		
Zn 206.200	595.577	588.006	586.692		

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-6.9250b	ppb	0.1593	2.3	-520.929
Al 308.215	95099.0b	ppb	455.157	0.5	809624
As 188.980	278.571b	ppb	1.8250	0.7	310.270
B 249.678	-20.0378b	ppb	1.0945	5.5	-1850.25
Ba 389.178	5898.71b	ppb	31.5342	0.5	195198
Be 313.042	20.2217b	ppb	0.1086	0.5	53388.2
Ca 370.602	20812b	ppb	142.7	0.7	103317
Cd 226.502	-3.9167b	ppb	0.0219	0.6	3223.68
Co 228.615	298.088b	ppb	9.8958	3.3	5822.08
Cr 267.716	334.395b	ppb	2.1491	0.6	27610.2
Cu 324.754	67.3698b	ppb	0.8257	1.2	5023.15
Fe 271.441	583596b	ppb	3195.63	0.5	1575952
K 766.491	1518.64b	ppb	8.4910	0.6	94406.9
Mg 279.078	8870.96b	ppb	54.1915	0.6	45019.8
Mn 257.610	40659.5xb	ppb	279.630	0.7	13787445
Mo 202.032	6.7894b	ppb	0.2170	3.2	51.5550
Na 330.237	-853.939b	ppb	71.3297	8.4	-128.283
Ni 231.604	75.6377b	ppb	1.3147	1.7	450.245
Pb 220.353	560.717b	ppb	4.0309	0.7	1995.87
Sb 206.834	-28.7743b	ppb	0.9651	3.4	-14.4604
Se 196.026	21.3927b	ppb	3.8402	18.0	18.1394
Sn 189.925	20.6634b	ppb	3.0235	14.6	3.2151
Sr 216.596	46.2429b	ppb	0.9693	2.1	2651.30
Ti 334.941	680.533b	ppb	4.4324	0.7	224998
Tl 190.794	32.6033b	ppb	1.9594	6.0	-41.9433
V 292.401	848.690b	ppb	4.8582	0.6	32468.8
Zn 206.200	590.092b	ppb	4.7956	0.8	1769.73

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**680-115692-a-48-c (Samp)**    **8/19/2015, 10:43:04 PM**    **Rack 2, Tube 34**  
**Weight: 1**                    **Volume: 1**                    **Dilution: 1**

<b>Label</b>	<b>Replicates</b>	<b>Concentration</b>			
Ag 328.068	-4.0947u	-3.8912u	-3.8001u		
Al 308.215	128158	128225	128190		
As 188.980	298.278	299.060	304.672		
B 249.678	-30.0249u	-30.1174u	-29.1723u		
Ba 389.178	5433.98	5436.08	5431.82		
Be 313.042	22.5395	22.6059	22.5987		
Ca 370.602	18994	19014	19007		
Cd 226.502	-5.4219	-5.4923	-5.5742		
Co 228.615	284.549	289.467	284.113		
Cr 267.716	448.536	450.003	449.303		
Cu 324.754	45.4479	45.6908	43.8098		
Fe 271.441	791981	788284	791122		
K 766.491	2233.18	2240.00	2235.29		
Mg 279.078	12170.1	12201.9	12197.4		
Mn 257.610	41491.8x	41621.9x	41588.6x		
Mo 202.032	7.8756	8.1812	8.1365		
Na 330.237	-1112.41u	-997.715u	-1082.93u		
Ni 231.604	96.4245	96.2733	96.6944		
Pb 220.353	438.004	439.795	440.584		
Sb 206.834	-31.4657u	-37.3028u	-31.9172u		
Se 196.026	22.2117	31.6336	22.4424		
Sn 189.925	16.8923	21.6207	18.6401		
Sr 216.596	8.5618	10.1031	9.5616		
Ti 334.941	557.952	559.535	558.993		
Tl 190.794	39.8452u	44.7780	43.5217u		
V 292.401	1073.85	1074.55	1075.89		
Zn 206.200	374.696	376.174	374.757		

<b>Label</b>	<b>Sol'n Conc.</b>	<b>Units</b>	<b>SD</b>	<b>%RSD</b>	<b>Int. (c/s)</b>
Ag 328.068	-3.9287b	ppb	0.1508	3.8	-268.780
Al 308.215	128191b	ppb	33.4812	0.0	1091102
As 188.980	300.670b	ppb	3.4878	1.2	334.022
B 249.678	-29.7715b	ppb	0.5210	1.8	-2590.90
Ba 389.178	5433.96b	ppb	2.1314	0.0	180017
Be 313.042	22.5814b	ppb	0.0364	0.2	59710.9
Ca 370.602	19005b	ppb	10.19	0.1	88258
Cd 226.502	-5.4961b	ppb	0.0762	1.4	4318.85
Co 228.615	286.043b	ppb	2.9733	1.0	5572.10
Cr 267.716	449.281b	ppb	0.7337	0.2	36988.5
Cu 324.754	44.9828b	ppb	1.0231	2.3	3580.85
Fe 271.441	790463b	ppb	1934.61	0.2	2134501
K 766.491	2236.16b	ppb	3.4909	0.2	138762
Mg 279.078	12189.8b	ppb	17.2216	0.1	62395.0
Mn 257.610	41567.4xb	ppb	67.5785	0.2	14096241
Mo 202.032	8.0644b	ppb	0.1651	2.0	49.9273
Na 330.237	-1064.35b	ppb	59.5632	5.6	-230.223
Ni 231.604	96.4641b	ppb	0.2133	0.2	581.606
Pb 220.353	439.461b	ppb	1.3221	0.3	1636.58
Sb 206.834	-33.5619b	ppb	3.2475	9.7	-24.8611
Se 196.026	25.4292b	ppb	5.3744	21.1	20.0576
Sn 189.925	19.0510b	ppb	2.3908	12.5	0.6002
Sr 216.596	9.4088b	ppb	0.7819	8.3	2323.45

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Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ti 334.941	558.827b	ppb	0.8050	0.1	184815
Tl 190.794	42.7150b	ppb	2.5634	6.0	-53.7691
V 292.401	1074.77b	ppb	1.0360	0.1	41120.9
Zn 206.200	375.209b	ppb	0.8363	0.2	1123.90

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 Weight: 1      Volume: 1      Dilution: 1

Label	Replicates	Concentration			
Ag 328.068	0.3847	0.3834	0.6954		
Al 308.215	88156.3	88973.5	88251.5		
As 188.980	306.915	313.355	312.951		
B 249.678	-18.6304u	-18.6541u	-16.9119u		
Ba 389.178	578.582	584.788	579.492		
Be 313.042	3.8422	3.8567	3.8179		
Ca 370.602	15587	15646	15581		
Cd 226.502	-5.5909	-4.6020	-4.8877		
Co 228.615	150.316	152.576	152.673		
Cr 267.716	858.955	858.891	858.250		
Cu 324.754	102.770	100.715	103.354		
Fe 271.441	579303	583409	579518		
K 766.491	1851.98	1867.02	1843.43		
Mg 279.078	6319.21	6369.80	6319.22		
Mn 257.610	12597.5	12669.8	12582.9		
Mo 202.032	16.6486	17.7350	17.5047		
Na 330.237	-600.496u	-678.121u	-699.224u		
Ni 231.604	35.8780	38.2314	34.7345		
Pb 220.353	624.165	635.197	630.524		
Sb 206.834	-24.2812u	-21.7355u	-25.2425u		
Se 196.026	16.4667	17.4679	21.4739		
Sn 189.925	18.4443	20.3047	21.1416		
Sr 216.596	-5.1077	-5.3109	-5.4169		
Ti 334.941	1507.87	1520.69	1504.28		
Tl 190.794	30.7361u	21.4048u	26.4505u		
V 292.401	991.992	1000.03	992.624		
Zn 206.200	241.872	244.568	244.711		

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	0.4878	ppb	0.1797	36.8	23.0185
Al 308.215	88460.4	ppb	446.880	0.5	753189
As 188.980	311.074	ppb	3.6072	1.2	348.752
B 249.678	-18.0655	ppb	0.9991	5.5	-1805.10
Ba 389.178	580.954	ppb	3.3512	0.6	19472.5
Be 313.042	3.8390	ppb	0.0196	0.5	9624.75
Ca 370.602	15605	ppb	35.89	0.2	73958
Cd 226.502	-5.0269	ppb	0.5089	10.1	3106.55
Co 228.615	151.855	ppb	1.3337	0.9	2964.50
Cr 267.716	858.699	ppb	0.3901	0.0	69817.7
Cu 324.754	102.279	ppb	1.3860	1.4	7393.69
Fe 271.441	580743	ppb	2310.83	0.4	1568229
K 766.491	1854.14	ppb	11.9439	0.6	115147
Mg 279.078	6336.08	ppb	29.2027	0.5	32827.3
Mn 257.610	12616.7	ppb	46.5048	0.4	4280200
Mo 202.032	17.2961	ppb	0.5725	3.3	146.703

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Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Na 330.237	-659.280	ppb	51.9907	7.9	-110.578
Ni 231.604	36.2813	ppb	1.7830	4.9	239.493
Pb 220.353	629.962	ppb	5.5372	0.9	2208.24
Sb 206.834	-23.7531	ppb	1.8122	7.6	2.3124
Se 196.026	18.4695	ppb	2.6496	14.3	4.9782
Sn 189.925	19.9635	ppb	1.3806	6.9	2.0806
Sr 216.596	-5.2785	ppb	0.1571	3.0	1439.35
Ti 334.941	1510.94	ppb	8.6280	0.6	499415
Tl 190.794	26.1971	ppb	4.6708	17.8	-77.9458
V 292.401	994.882	ppb	4.4689	0.4	38042.3
Zn 206.200	243.717	ppb	1.5991	0.7	725.911

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Rack 2, Tube 36

Weight: 1

Volume: 1

Dilution: 1

Label	Replicates	Concentration			
Ag 328.068	-1.2615u	-1.7474u	-1.8861u		
Al 308.215	101034	101307	101983		
As 188.980	130.333	126.619	129.241		
B 249.678	-6.2591u	-6.3645u	-5.7096u		
Ba 389.178	365.043	365.206	369.029		
Be 313.042	2.4521	2.4669	2.4924		
Ca 370.602	12439	12470	12629		
Cd 226.502	-3.1785	-3.3368	-3.1524		
Co 228.615	28.7235	29.0502	29.7839		
Cr 267.716	467.306	469.577	473.611		
Cu 324.754	74.6686	75.2098	72.4658		
Fe 271.441	351636	351715	355435		
K 766.491	2539.87	2558.41	2577.23		
Mg 279.078	4410.44	4435.70	4451.96		
Mn 257.610	7272.61	7289.31	7352.88		
Mo 202.032	12.6057	11.1819	11.4063		
Na 330.237	-686.845u	-394.321u	-724.854u		
Ni 231.604	44.5606	46.8247	44.8615		
Pb 220.353	143.780	150.582	143.450		
Sb 206.834	-17.0276u	-13.5610u	-19.3655u		
Se 196.026	10.9653	15.6622	12.3737		
Sn 189.925	24.2512	21.2904	22.0228		
Sr 216.596	32.1745	32.6122	31.3273		
Ti 334.941	1477.25	1485.54	1499.75		
Tl 190.794	17.3696u	18.6443u	16.2021u		
V 292.401	652.944	649.338	659.557		
Zn 206.200	213.291	214.346	217.282		

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-1.6317	ppb	0.3280	20.1	-167.482
Al 308.215	101441	ppb	488.751	0.5	863505
As 188.980	128.731	ppb	1.9087	1.5	135.642
B 249.678	-6.1111	ppb	0.3517	5.8	-965.199
Ba 389.178	366.426	ppb	2.2557	0.6	12193.6
Be 313.042	2.4705	ppb	0.0204	0.8	5949.16
Ca 370.602	12513	ppb	102.0	0.8	62127
Cd 226.502	-3.2226	ppb	0.0998	3.1	1906.05
Co 228.615	29.1859	ppb	0.5431	1.9	547.130

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Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Cr 267.716	470.165	ppb	3.1932	0.7	38264.9
Cu 324.754	74.1147	ppb	1.4535	2.0	5392.48
Fe 271.441	352929	ppb	2170.76	0.6	953093
K 766.491	2558.50	ppb	18.6774	0.7	158688
Mg 279.078	4432.70	ppb	20.9250	0.5	23031.2
Mn 257.610	7304.94	ppb	42.3497	0.6	2478286
Mo 202.032	11.7313	ppb	0.7655	6.5	110.940
Na 330.237	-602.007	ppb	180.862	30.0	-12.4619
Ni 231.604	45.4156	ppb	1.2296	2.7	267.465
Pb 220.353	145.938	ppb	4.0259	2.8	594.960
Sb 206.834	-16.6513	ppb	2.9205	17.5	12.5639
Se 196.026	13.0004	ppb	2.4104	18.5	0.3901
Sn 189.925	22.5215	ppb	1.5421	6.8	6.2283
Sr 216.596	32.0380	ppb	0.6533	2.0	1722.36
Ti 334.941	1487.51	ppb	11.3815	0.8	491638
Tl 190.794	17.4053	ppb	1.2215	7.0	-65.1702
V 292.401	653.946	ppb	5.1828	0.8	25006.4
Zn 206.200	214.973	ppb	2.0680	1.0	642.888

Cont Calib Verif (CCV)

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Rack 2, Tube 37

Weight: 1

Volume: 1

Dilution: 1

Label	Replicates	Concentration					
Ag 328.068	489.765	507.507	490.581				
Al 308.215	4801.74	4902.22	4763.65				
As 188.980	494.393	484.564	482.820				
B 249.678	462.861	475.197	462.718				
Ba 389.178	4877.80	4966.98	4832.71				
Be 313.042	479.264	490.384	477.647				
Ca 370.602	5088	5221	5066				
Cd 226.502	484.310	495.039	482.077				
Co 228.615	480.276	491.091	478.749				
Cr 267.716	4917.02	5034.29	4908.14				
Cu 324.754	4882.90	5198.03	4898.37				
Fe 271.441	4765.93	4851.86	4725.79				
K 766.491	9565.09	9724.78	9499.53				
Mg 279.078	4752.61	4862.61	4734.63				
Mn 257.610	4831.05	4946.59	4817.19				
Mo 202.032	487.779	499.959	485.254				
Na 330.237	6652.30	6772.35	6640.21				
Ni 231.604	2387.82	2442.38	2382.06				
Pb 220.353	484.243	497.235	481.466				
Sb 206.834	978.207	1009.71	967.136				
Se 196.026	4774.21	4870.84	4697.39				
Sn 189.925	4838.53	4757.51	4893.63				
Sr 216.596	2408.62	2466.07	2398.16				
Ti 334.941	478.107	488.531	476.346				
Tl 190.794	4875.34	4973.09	4855.29				
V 292.401	4812.55	4899.45	4767.94				
Zn 206.200	2418.27	2476.86	2397.42				

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)	QC Value
Ag 328.068	495.951	ppb	10.0163	2.0	47025.0	99.19022
Al 308.215	4822.54	ppb	71.5872	1.5	42376.3	96.45073

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Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)	QC Value
As 188.980	487.259	ppb	6.2397	1.3	563.586	97.45181
B 249.678	466.925	ppb	7.1639	1.5	9127.98	93.38509
Ba 389.178	4892.50	ppb	68.3312	1.4	161488	97.84997
Be 313.042	482.432	ppb	6.9339	1.4	1288888	96.48634
Ca 370.602	5125	ppb	84.05	1.6	28882	102.50394
Cd 226.502	487.142	ppb	6.9295	1.4	43110.9	97.42840
Co 228.615	483.372	ppb	6.7283	1.4	9482.94	96.67439
Cr 267.716	4953.15	ppb	70.4129	1.4	400671	99.06300
Cu 324.754	4993.10	ppb	177.643	3.6	339607	99.86195
Fe 271.441	4781.19	ppb	64.4075	1.3	13244.5	95.62384
K 766.491	9596.47	ppb	115.856	1.2	593755	95.96470
Mg 279.078	4783.28	ppb	69.2861	1.4	25040.6	95.66566
Mn 257.610	4864.95	ppb	71.0491	1.5	1649455	97.29892
Mo 202.032	490.997	ppb	7.8628	1.6	4469.08	98.19943
Na 330.237	6688.29	ppb	73.0510	1.1	736.115	89.17717Q
Ni 231.604	2404.09	ppb	33.2881	1.4	12885.2	96.16343
Pb 220.353	487.648	ppb	8.4177	1.7	1650.26	97.52955
Sb 206.834	985.019	ppb	22.0904	2.2	1748.06	98.50187
Se 196.026	4780.81	ppb	86.9131	1.8	3711.01	95.61627
Sn 189.925	4829.89	ppb	68.4706	1.4	7799.78	96.59779
Sr 216.596	2424.28	ppb	36.5603	1.5	56745.6	96.97137
Ti 334.941	480.994	ppb	6.5857	1.4	158967	96.19886
Tl 190.794	4901.24	ppb	63.0287	1.3	9054.32	98.02486
V 292.401	4826.65	ppb	66.8760	1.4	184438	96.53294
Zn 206.200	2430.85	ppb	41.1875	1.7	7255.61	97.23395

Cont Calib Blank (CCB) 8/19/2015, 11:01:29 PM

Weight: 1 Volume: 1

Rack 2, Tube 38

Dilution: 1

Label	Replicates	Concentration
Ag 328.068	-0.3115u	-0.6756u
Al 308.215	-21.1075u	-20.5965u
As 188.980	-1.3156u	-2.1682u
B 249.678	2.9100	3.8622
Ba 389.178	2.2644	2.1695
Be 313.042	0.0253	0.0193
Ca 370.602	4.700	4.192
Cd 226.502	0.4613	0.5291
Co 228.615	0.2681	0.1348
Cr 267.716	-0.3122u	-0.1255u
Cu 324.754	0.0214	0.7757
Fe 271.441	-6.7296u	2.1675
K 766.491	-0.1215u	-0.6240u
Mg 279.078	-1.3869u	-2.6656u
Mn 257.610	0.0331	0.0601
Mo 202.032	-0.0966u	0.7421
Na 330.237	-157.092u	-130.106u
Ni 231.604	0.0132	2.2402
Pb 220.353	-0.8781u	-1.4663u
Sb 206.834	-10.2486u	-4.2460u
Se 196.026	7.7866	0.0738
Sn 189.925	1.7509	0.5140
Sr 216.596	-0.0149u	0.2632
Ti 334.941	0.0987	0.1224

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Label	Replicates Concentration					
Tl 190.794	2.2798	3.2733	4.4833			
V 292.401	0.3694	0.0757	0.6359			
Zn 206.200	-0.2625u	0.6228	0.5515			

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)	QC Value
Ag 328.068	-0.3774	ppb	0.2713	71.9	-24.3028	-0.37742
Al 308.215	-20.6360	ppb	0.4530	2.2	515.855	-20.63602
As 188.980	-0.3948	ppb	2.3719	600.8	-13.0458	-0.39477
B 249.678	3.2745	ppb	0.5139	15.7	158.794	3.27449
Ba 389.178	1.7972	ppb	0.7285	40.5	-153.349	1.79719
Be 313.042	0.0224	ppb	0.0030	13.5	-651.586	0.02241
Ca 370.602	4.572	ppb	0.3351	7.3	-9.580	4.57239
Cd 226.502	0.4646	ppb	0.0630	13.6	132.042	0.46457
Co 228.615	0.2427	ppb	0.0977	40.3	-66.6084	0.24271
Cr 267.716	-0.2072	ppb	0.0955	46.1	26.6478	-0.20725
Cu 324.754	0.5245	ppb	0.4357	83.1	257.349	0.52450
Fe 271.441	-2.1930	ppb	4.4512	203.0	149.358	-2.19295
K 766.491	-0.7888	ppb	0.7631	96.8	480.191	-0.78876
Mg 279.078	-2.7713	ppb	1.4403	52.0	95.1854	-2.77134
Mn 257.610	0.0407	ppb	0.0170	41.7	50.7480	0.04068
Mo 202.032	0.3658	ppb	0.4259	116.4	30.8411	0.36575
Na 330.237	-186.390	ppb	75.3339	40.4	167.133	-186.38962
Ni 231.604	0.9800	ppb	1.1422	116.5	-4.2305	0.98003
Pb 220.353	-1.1618	ppb	0.2946	25.4	58.7377	-1.16181
Sb 206.834	-6.2485	ppb	3.4642	55.4	29.6898	-6.24850
Se 196.026	2.6969	ppb	4.4085	163.5	-7.7807	2.69695
Sn 189.925	1.1168	ppb	0.6191	55.4	-28.4707	1.11675
Sr 216.596	0.1659	ppb	0.1568	94.5	62.6765	0.16595
Ti 334.941	0.0882	ppb	0.0404	45.8	34.2135	0.08823
Tl 190.794	3.3455	ppb	1.1036	33.0	-45.0146	3.34546
V 292.401	0.3603	ppb	0.2802	77.8	-14.9693	0.36034
Zn 206.200	0.3039	ppb	0.4918	161.8	2.5698	0.30392

680-115692-a-51-b (Samp)      8/19/2015, 11:06:04 PM      Rack 2, Tube 39  
 Weight: 1      Volume: 1      Dilution: 1

Label	Replicates Concentration		
Ag 328.068	-0.5696u	-1.9559u	-2.6755u
Al 308.215	151327	151521	152000
As 188.980	318.124	315.761	316.961
B 249.678	19.1625u	19.8222u	19.3272u
Ba 389.178	1403.35	1402.21	1409.23
Be 313.042	12.0053	11.9623	12.0256
Ca 370.602	137141	136889	137327
Cd 226.502	-2.7764	-2.8385	-2.4609
Co 228.615	113.355	111.079	114.491
Cr 267.716	886.710	880.444	883.476
Cu 324.754	214.338	223.600	222.179
Fe 271.441	547699	545669	551488
K 766.491	5874.14	5842.13	5883.20
Mg 279.078	20918.6	20914.1	20893.7
Mn 257.610	22220.3	22226.4	22145.4
Mo 202.032	16.7433	16.2960	16.9094
Na 330.237	-437.178u	-652.077u	-808.596u

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Label	Replicates Concentration		
Ni 231.604	84.1232	85.2926	85.9076
Pb 220.353	477.157	478.794	478.775
Sb 206.834	-13.4198u	-22.7609u	-19.5887u
Se 196.026	23.6400	16.6345	22.5576
Sn 189.925	41.0142	39.8506	40.7113
Sr 216.596	287.789	286.248	287.740
Ti 334.941	5102.26	5086.09	5119.14
Tl 190.794	31.5929u	28.1528u	28.2995u
V 292.401	1045.17	1043.82	1048.68
Zn 206.200	754.957	750.562	754.115

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-1.7337	ppb	1.0704	61.7	-137.158
Al 308.215	151616	ppb	346.525	0.2	1290279
As 188.980	316.949	ppb	1.1815	0.4	356.080
B 249.678	19.4373	ppb	0.3434	1.8	-993.041
Ba 389.178	1404.93	ppb	3.7633	0.3	46708.4
Be 313.042	11.9977	ppb	0.0324	0.3	31495.6
Ca 370.602	137119	ppb	219.6	0.2	749306
Cd 226.502	-2.6920	ppb	0.2024	7.5	3103.41
Co 228.615	112.975	ppb	1.7372	1.5	2328.32
Cr 267.716	883.543	ppb	3.1338	0.4	71896.1
Cu 324.754	220.039	ppb	4.9880	2.3	15385.3
Fe 271.441	548286	ppb	2953.37	0.5	1480588
K 766.491	5866.49	ppb	21.5744	0.4	363179
Mg 279.078	20908.8	ppb	13.2332	0.1	108957
Mn 257.610	22197.4	ppb	45.1097	0.2	7528301
Mo 202.032	16.6496	ppb	0.3173	1.9	142.789
Na 330.237	-632.617	ppb	186.472	29.5	-96.0187
Ni 231.604	85.1078	ppb	0.9064	1.1	498.525
Pb 220.353	478.242	ppb	0.9394	0.2	1708.51
Sb 206.834	-18.5898	ppb	4.7500	25.6	11.9656
Se 196.026	20.9440	ppb	3.7712	18.0	10.8806
Sn 189.925	40.5254	ppb	0.6037	1.5	35.4150
Sr 216.596	287.259	ppb	0.8758	0.3	8207.52
Ti 334.941	5102.50	ppb	16.5281	0.3	1686324
Tl 190.794	29.3484	ppb	1.9452	6.6	-58.8047
V 292.401	1045.89	ppb	2.5099	0.2	40032.2
Zn 206.200	753.211	ppb	2.3327	0.3	2254.72

680-115692-a-52-b (Samp)      8/19/2015, 11:10:40 PM      Rack 2, Tube 40  
 Weight: 1      Volume: 1      Dilution: 1

Label	Replicates Concentration		
Ag 328.068	-1.5221u	-1.1310u	-1.7756u
Al 308.215	124637	125188	125102
As 188.980	219.730	228.952	224.645
B 249.678	2.7976u	2.3803u	2.6004u
Ba 389.178	1550.26	1560.75	1551.50
Be 313.042	11.0821	11.0818	11.0805
Ca 370.602	50898	51026	51101
Cd 226.502	-3.8962	-3.4603	-3.7220
Co 228.615	189.171	188.154	185.543
Cr 267.716	525.517	526.541	527.288

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Label	Replicates	Concentration			
Cu 324.754	139.746	139.075	141.485		
Fe 271.441	517772	519539	520742		
K 766.491	3617.83	3627.75	3620.22		
Mg 279.078	7145.71	7174.54	7168.21		
Mn 257.610	18869.7	19025.4	19050.7		
Mo 202.032	27.5527	26.1763	25.4902		
Na 330.237	-798.774u	-457.062u	-437.658u		
Ni 231.604	98.3358	95.8710	95.9952		
Pb 220.353	535.459	544.409	546.555		
Sb 206.834	-21.9258u	-11.9766u	-13.5196u		
Se 196.026	15.1495	20.4588	26.6312		
Sn 189.925	25.4290	25.4772	22.8318		
Sr 216.596	202.442	204.401	205.003		
Ti 334.941	2393.17	2395.26	2391.79		
Tl 190.794	25.8974u	23.6326u	24.3526u		
V 292.401	876.242	879.267	880.208		
Zn 206.200	388.544	390.408	389.690		

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-1.4762	ppb	0.3247	22.0	-122.826
Al 308.215	124976	ppb	296.660	0.2	1063701
As 188.980	224.442	ppb	4.6140	2.1	246.949
B 249.678	2.5928	ppb	0.2087	8.1	-1242.29
Ba 389.178	1554.17	ppb	5.7321	0.4	51583.2
Be 313.042	11.0815	ppb	0.0009	0.0	28989.5
Ca 370.602	51009	ppb	102.6	0.2	272014
Cd 226.502	-3.6928	ppb	0.2194	5.9	2855.57
Co 228.615	187.623	ppb	1.8715	1.0	3703.88
Cr 267.716	526.449	ppb	0.8893	0.2	42968.6
Cu 324.754	140.102	ppb	1.2441	0.9	9942.38
Fe 271.441	519351	ppb	1494.19	0.3	1402471
K 766.491	3621.94	ppb	5.1738	0.1	224427
Mg 279.078	7162.82	ppb	15.1498	0.2	36889.4
Mn 257.610	18981.9	ppb	98.0364	0.5	6437886
Mo 202.032	26.4064	ppb	1.0503	4.0	233.219
Na 330.237	-564.498	ppb	203.121	36.0	-77.8961
Ni 231.604	96.7340	ppb	1.3886	1.4	557.862
Pb 220.353	542.141	ppb	5.8849	1.1	1913.13
Sb 206.834	-15.8073	ppb	5.3546	33.9	11.1416
Se 196.026	20.7465	ppb	5.7463	27.7	9.6983
Sn 189.925	24.5794	ppb	1.5136	6.2	9.5640
Sr 216.596	203.949	ppb	1.3392	0.7	6180.28
Ti 334.941	2393.40	ppb	1.7474	0.1	791031
Tl 190.794	24.6275	ppb	1.1572	4.7	-66.0680
V 292.401	878.572	ppb	2.0719	0.2	33613.7
Zn 206.200	389.547	ppb	0.9403	0.2	1166.31

680-115692-a-53-b (Samp)      8/19/2015, 11:15:15 PM      Rack 2, Tube 41  
 Weight: 1      Volume: 1      Dilution: 1

Label	Replicates	Concentration			
Ag 328.068	-1.2359u	-1.4820u	-1.5267u		
Al 308.215	147831	149531	148011		
As 188.980	244.523	249.530	250.318		

Label	Replicates	Concentration				
B 249.678	-1.1438u	-1.0339u	-0.7300u			
Ba 389.178	1260.09	1275.12	1258.84			
Be 313.042	13.7050	13.8976	13.7185			
Ca 370.602	149510	150313	149782			
Cd 226.502	-4.0282	-3.7104	-4.5268			
Co 228.615	95.0140	95.4429	95.8319			
Cr 267.716	817.649	830.705	824.101			
Cu 324.754	131.705	139.613	141.022			
Fe 271.441	666809	674210	668233			
K 766.491	4416.82	4468.34	4430.32			
Mg 279.078	21424.2	21694.6	21452.3			
Mn 257.610	15730.5	15795.8	15710.8			
Mo 202.032	18.5045	19.2739	18.1360			
Na 330.237	-731.089u	-840.402u	-480.792u			
Ni 231.604	70.7956	71.2603	68.4965			
Pb 220.353	954.261	969.417	958.736			
Sb 206.834	-15.2258u	-25.6824u	-16.0481u			
Se 196.026	27.3309	20.0869	23.8005			
Sn 189.925	30.8290	29.6457	27.6752			
Sr 216.596	234.050	239.223	234.548			
Ti 334.941	2781.91	2824.42	2795.95			
Tl 190.794	29.3272u	23.5186u	28.4682u			
V 292.401	1089.39	1098.46	1089.20			
Zn 206.200	585.029	591.269	581.379			

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-1.4149	ppb	0.1566	11.1	-165.498
Al 308.215	148458	ppb	933.478	0.6	1263445
As 188.980	248.124	ppb	3.1427	1.3	273.235
B 249.678	-0.9692	ppb	0.2144	22.1	-1712.21
Ba 389.178	1264.68	ppb	9.0622	0.7	42174.2
Be 313.042	13.7737	ppb	0.1075	0.8	36250.3
Ca 370.602	149868	ppb	408.2	0.3	814479
Cd 226.502	-4.0885	ppb	0.4116	10.1	3715.27
Co 228.615	95.4296	ppb	0.4091	0.4	1892.76
Cr 267.716	824.152	ppb	6.5280	0.8	67084.5
Cu 324.754	137.447	ppb	5.0219	3.7	9818.65
Fe 271.441	669751	ppb	3926.97	0.6	1808544
K 766.491	4438.49	ppb	26.7161	0.6	274904
Mg 279.078	21523.7	ppb	148.651	0.7	112447
Mn 257.610	15745.7	ppb	44.4629	0.3	5341594
Mo 202.032	18.6381	ppb	0.5806	3.1	153.189
Na 330.237	-684.094	ppb	184.354	26.9	-149.645
Ni 231.604	70.1841	ppb	1.4798	2.1	430.057
Pb 220.353	960.805	ppb	7.7867	0.8	3296.08
Sb 206.834	-18.9854	ppb	5.8143	30.6	7.7358
Se 196.026	23.7395	ppb	3.6224	15.3	9.6177
Sn 189.925	29.3833	ppb	1.5932	5.4	17.3513
Sr 216.596	235.941	ppb	2.8534	1.2	7320.85
Ti 334.941	2800.76	ppb	21.6626	0.8	925699
Tl 190.794	27.1047	ppb	3.1352	11.6	-87.2846
V 292.401	1092.35	ppb	5.2923	0.5	41791.6
Zn 206.200	585.892	ppb	5.0015	0.9	1753.09

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**680-115692-a-54-b (Samp)** **8/19/2015, 11:19:51 PM** **Rack 2, Tube 42**  
**Weight: 1** **Volume: 1** **Dilution: 1**

<b>Label</b>	<b>Replicates</b>	<b>Concentration</b>			
Ag 328.068	-3.6722u	-3.2449u	-2.8324u		
Al 308.215	124122	123488	124365		
As 188.980	305.727	303.947	308.792		
B 249.678	-29.6915u	-29.5617u	-30.6204u		
Ba 389.178	3866.62	3841.24	3877.08		
Be 313.042	21.8391	21.7759	21.9051		
Ca 370.602	27711	27683	27825		
Cd 226.502	-4.6891	-5.1157	-4.6353		
Co 228.615	291.629	293.617	284.370		
Cr 267.716	545.604	543.360	546.568		
Cu 324.754	58.8774	57.0682	60.7660		
Fe 271.441	830410	830413	832545		
K 766.491	2137.32	2129.14	2139.09		
Mg 279.078	9842.17	9794.61	9853.62		
Mn 257.610	45393.1x	45073.7x	45467.7x		
Mo 202.032	10.2096	9.3765	9.8555		
Na 330.237	-1262.38u	-1182.76u	-1184.67u		
Ni 231.604	98.9386	99.1412	98.0560		
Pb 220.353	491.963	486.211	486.786		
Sb 206.834	-31.0544u	-25.7810u	-26.9475u		
Se 196.026	23.6137	41.7926	27.0428		
Sn 189.925	21.4518	20.8903	23.5175		
Sr 216.596	40.5055	40.3935	40.4746		
Ti 334.941	916.584	913.266	920.520		
Tl 190.794	38.9490u	42.0629u	40.3435u		
V 292.401	1169.66	1164.41	1171.62		
Zn 206.200	485.511	483.079	487.000		

<b>Label</b>	<b>Sol'n Conc.</b>	<b>Units</b>	<b>SD</b>	<b>%RSD</b>	<b>Int. (c/s)</b>
Ag 328.068	-3.2498b	ppb	0.4199	12.9	-191.259
Al 308.215	123992b	ppb	452.729	0.4	1055409
As 188.980	306.155b	ppb	2.4506	0.8	340.032
B 249.678	-29.9578b	ppb	0.5774	1.9	-2704.46
Ba 389.178	3861.65b	ppb	18.4330	0.5	128090
Be 313.042	21.8400b	ppb	0.0646	0.3	57738.9
Ca 370.602	27740b	ppb	74.97	0.3	135983
Cd 226.502	-4.8134b	ppb	0.2632	5.5	4623.40
Co 228.615	289.872b	ppb	4.8676	1.7	5659.51
Cr 267.716	545.177b	ppb	1.6458	0.3	44789.2
Cu 324.754	58.9039b	ppb	1.8490	3.1	4542.45
Fe 271.441	831123b	ppb	1231.60	0.1	2244288
K 766.491	2135.18b	ppb	5.3028	0.2	132520
Mg 279.078	9830.13b	ppb	31.2884	0.3	49850.5
Mn 257.610	45311.5xb	ppb	209.282	0.5	15365747
Mo 202.032	9.8139b	ppb	0.4181	4.3	63.0804
Na 330.237	-1209.94b	ppb	45.4268	3.8	-259.430
Ni 231.604	98.7119b	ppb	0.5770	0.6	597.541
Pb 220.353	488.320b	ppb	3.1678	0.6	1803.63
Sb 206.834	-27.9276b	ppb	2.7700	9.9	-14.8502
Se 196.026	30.8164b	ppb	9.6591	31.3	25.4071
Sn 189.925	21.9532b	ppb	1.3835	6.3	5.3048
Sr 216.596	40.4579b	ppb	0.0579	0.1	3157.72

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Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ti 334.941	916.790b	ppb	3.6316	0.4	303109
Tl 190.794	40.4518b	ppb	1.5598	3.9	-60.7781
V 292.401	1168.56b	ppb	3.7292	0.3	44711.7
Zn 206.200	485.197b	ppb	1.9794	0.4	1453.19

680-115692-a-55-b (Samp)      8/19/2015, 11:24:26 PM      Rack 2, Tube 43  
 Weight: 1      Volume: 1      Dilution: 1

Label	Replicates	Concentration			
Ag 328.068	-0.0920	0.1903	-0.1321		
Al 308.215	168446	168183	168413		
As 188.980	258.835	260.577	267.942		
B 249.678	62.7755u	63.6310u	65.4622u		
Ba 389.178	2638.71	2642.61	2640.33		
Be 313.042	21.5313	21.5138	21.4519		
Ca 370.602	360200	356909	357091		
Cd 226.502	-1.9239	-1.8187	-1.2399		
Co 228.615	147.148	148.866	155.403		
Cr 267.716	1450.03	1440.32	1443.05		
Cu 324.754	292.416	298.431	307.303		
Fe 271.441	731015	726161	727231		
K 766.491	8726.93	8774.13	8786.15		
Mg 279.078	30650.1	30506.9	30736.7		
Mn 257.610	42911.7x	42856.0x	42855.1x		
Mo 202.032	16.6220	17.0770	16.9608		
Na 330.237	-1016.43u	-904.377u	-1142.43u		
Ni 231.604	110.699	106.993	108.164		
Pb 220.353	684.376	682.835	689.774		
Sb 206.834	-15.3387u	-13.7050u	-12.4939u		
Se 196.026	26.1466	31.1489	32.4693		
Sn 189.925	58.7554	63.5300	60.1178		
Sr 216.596	644.296	640.168	642.329		
Ti 334.941	11512.9	11613.7	11559.6		
Tl 190.794	35.1488u	36.0476u	35.5155u		
V 292.401	1381.63	1379.01	1379.76		
Zn 206.200	1114.81	1112.01	1121.67		

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.0113b	ppb	0.1757	1557.8	98.5682
Al 308.215	168347b	ppb	142.948	0.1	1432636
As 188.980	262.451b	ppb	4.8341	1.8	289.508
B 249.678	63.9562b	ppb	1.3726	2.1	-613.351
Ba 389.178	2640.55b	ppb	1.9572	0.1	87707.5
Be 313.042	21.4990b	ppb	0.0417	0.2	57009.5
Ca 370.602	358066b	ppb	1850	0.5	1971580
Cd 226.502	-1.6608b	ppb	0.3683	22.2	4241.68
Co 228.615	150.472b	ppb	4.3556	2.9	3299.88
Cr 267.716	1444.47b	ppb	5.0105	0.3	117509
Cu 324.754	299.384b	ppb	7.4891	2.5	20846.6
Fe 271.441	728136b	ppb	2550.04	0.4	1966205
K 766.491	8762.41b	ppb	31.3046	0.4	542196
Mg 279.078	30631.3b	ppb	116.030	0.4	159194
Mn 257.610	42874.3xb	ppb	32.4486	0.1	14539239
Mo 202.032	16.8866b	ppb	0.2364	14	133.248

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Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Na 330.237	-1021.08b	ppb	119.095	11.7	-203.254
Ni 231.604	108.618b	ppb	1.8945	1.7	641.493
Pb 220.353	685.662b	ppb	3.6437	0.5	2414.45
Sb 206.834	-13.8459b	ppb	1.4276	10.3	25.2931
Se 196.026	29.9216b	ppb	3.3352	11.1	24.5515
Sn 189.925	60.8011b	ppb	2.4595	4.0	68.2845
Sr 216.596	642.264b	ppb	2.0646	0.3	16992.3
Ti 334.941	11562.1b	ppb	50.4587	0.4	3821031
Tl 190.794	35.5706b	ppb	0.4520	1.3	-56.0181
V 292.401	1380.13b	ppb	1.3492	0.1	52869.9
Zn 206.200	1116.16b	ppb	4.9708	0.4	3339.28

680-115692-a-56-b (Samp)

8/19/2015, 11:29:02 PM

Rack 2, Tube 44

Weight: 1

Volume: 1

Dilution: 1

Label	Replicates	Concentration
Ag 328.068	-0.0356	0.1258
Al 308.215	163394	165084
As 188.980	188.983	188.608
B 249.678	90.8987	92.7628
Ba 389.178	2384.60	2391.02
Be 313.042	16.9212	17.0088
Ca 370.602	441879	440570
Cd 226.502	-1.5506	-0.9948
Co 228.615	103.022	103.112
Cr 267.716	1753.46	1752.46
Cu 324.754	446.287	465.534
Fe 271.441	607470	608640
K 766.491	10605.8	10612.7
Mg 279.078	43204.4	43314.2
Mn 257.610	46036.7x	46046.4x
Mo 202.032	19.9017	19.0808
Na 330.237	-908.598u	-1042.14u
Ni 231.604	114.388	115.425
Pb 220.353	703.199	704.775
Sb 206.834	-16.6688u	-11.3860u
Se 196.026	37.7782	27.0769
Sn 189.925	76.4960	78.6268
Sr 216.596	738.187	738.991
Ti 334.941	14272.6	13910.1
Tl 190.794	30.3709	30.9901
V 292.401	1394.91	1398.17
Zn 206.200	1380.28	1384.11
		1380.04

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.2114b	ppb	0.4516	213.6	116.995
Al 308.215	163987b	ppb	951.718	0.6	1395539
As 188.980	187.046b	ppb	3.0371	1.6	201.666
B 249.678	91.7271b	ppb	0.9492	1.0	242.073
Ba 389.178	2388.60b	ppb	3.4841	0.1	79315.9
Be 313.042	16.9520b	ppb	0.0493	0.3	44897.2
Ca 370.602	441048b	ppb	722.6	0.2	2434961
Cd 226.502	-1.1110b	ppb	0.3946	35.5	3568.55
Co 228.615	102.443b	ppb	1.0829	11	2445.52

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<b>Label</b>	<b>Sol'n Conc.</b>	<b>Units</b>	<b>SD</b>	<b>%RSD</b>	<b>Int. (c/s)</b>
Cr 267.716	1753.28b	ppb	0.7531	0.0	142473
Cu 324.754	460.129b	ppb	12.0831	2.6	31726.3
Fe 271.441	609319b	ppb	2265.33	0.4	1645389
K 766.491	10597.8b	ppb	20.0468	0.2	655656
Mg 279.078	43203.9b	ppb	110.470	0.3	225120
Mn 257.610	46110.0xb	ppb	118.611	0.3	15635819
Mo 202.032	19.6426b	ppb	0.4870	2.5	165.603
Na 330.237	-941.313b	ppb	89.0977	9.5	-148.342
Ni 231.604	115.519b	ppb	1.1812	1.0	667.418
Pb 220.353	706.016b	ppb	3.6010	0.5	2459.59
Sb 206.834	-13.3399b	ppb	2.8974	21.7	33.6028
Se 196.026	28.2514b	ppb	8.9972	31.8	25.4056
Sn 189.925	77.3492b	ppb	1.1270	1.5	95.1125
Sr 216.596	737.553b	ppb	1.8390	0.2	18915.7
Ti 334.941	14016.0b	ppb	223.257	1.6	4631995
Tl 190.794	30.0057b	ppb	1.2091	4.0	-45.3280
V 292.401	1396.84b	ppb	1.7154	0.1	53515.9
Zn 206.200	1381.48b	ppb	2.2854	0.2	4132.97

680-115692-a-57-b (Samp)

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Rack 2, Tube 45

Weight: 1

Volume: 1

Dilution: 1

<b>Label</b>	<b>Replicates</b>	<b>Concentration</b>
Ag 328.068	-2.1103u	-2.8586u
Al 308.215	146402	146302
As 188.980	326.461	320.561
B 249.678	-7.5910u	-8.0562u
Ba 389.178	763.334	761.013
Be 313.042	8.5156	8.5179
Ca 370.602	55848	55641
Cd 226.502	-4.1422	-4.2263
Co 228.615	149.858	154.040
Cr 267.716	1278.24	1279.89
Cu 324.754	140.571	144.476
Fe 271.441	606008	606306
K 766.491	3336.34	3329.49
Mg 279.078	17365.7	17322.5
Mn 257.610	18037.4	18079.5
Mo 202.032	18.8436	19.5668
Na 330.237	-692.306u	-809.329u
Ni 231.604	80.2039	80.3574
Pb 220.353	388.904	392.537
Sb 206.834	-20.4506u	-28.2780u
Se 196.026	20.1533	19.3804
Sn 189.925	37.6779	35.8721
Sr 216.596	71.3623	71.0953
Ti 334.941	1932.48	1940.84
Tl 190.794	27.1474u	27.4941u
V 292.401	946.981	946.341
Zn 206.200	500.536	497.909

<b>Label</b>	<b>Sol'n Conc.</b>	<b>Units</b>	<b>SD</b>	<b>%RSD</b>	<b>Int. (c/s)</b>
Ag 328.068	-2.4772	ppb	0.3744	15.1	-234.613
Al 308.215	146437	ppb	156.289	0.1	1246235

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Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
As 188.980	321.131	ppb	5.0685	1.6	360.353
B 249.678	-7.7500	ppb	0.2652	3.4	-1674.04
Ba 389.178	761.794	ppb	1.3330	0.2	25495.1
Be 313.042	8.5177	ppb	0.0020	0.0	22147.9
Ca 370.602	55820	ppb	167.2	0.3	296041
Cd 226.502	-4.1932	ppb	0.0448	1.1	3331.79
Co 228.615	152.601	ppb	2.3770	1.6	2995.21
Cr 267.716	1281.39	ppb	4.0988	0.3	104063
Cu 324.754	140.788	ppb	3.5842	2.5	10022.5
Fe 271.441	606308	ppb	301.036	0.0	1637254
K 766.491	3333.99	ppb	3.9047	0.1	206627
Mg 279.078	17361.4	ppb	36.8949	0.2	90488.9
Mn 257.610	18067.4	ppb	26.0660	0.1	6128352
Mo 202.032	19.1779	ppb	0.3647	1.9	162.229
Na 330.237	-838.916	ppb	163.425	19.5	-136.463
Ni 231.604	79.2358	ppb	1.8113	2.3	472.382
Pb 220.353	390.925	ppb	1.8507	0.5	1436.71
Sb 206.834	-21.6771	ppb	6.0810	28.1	12.0604
Se 196.026	15.0845	ppb	8.1193	53.8	4.2732
Sn 189.925	34.8954	ppb	3.3784	9.7	26.2875
Sr 216.596	71.4714	ppb	0.4409	0.6	3302.14
Ti 334.941	1937.60	ppb	4.4862	0.2	640437
Tl 190.794	28.5934	ppb	2.2111	7.7	-72.8833
V 292.401	946.794	ppb	0.3944	0.0	36177.4
Zn 206.200	500.241	ppb	2.1986	0.4	1492.28

680-115692-a-58-b (Samp)

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Rack 2, Tube 46

Weight: 1

Volume: 1

Dilution: 1

Label	Replicates	Concentration
Ag 328.068	-5.4223u	-5.6327u
Al 308.215	153916	155514
As 188.980	206.015	206.831
B 249.678	-12.4892u	-13.5354u
Ba 389.178	5594.37	5657.55
Be 313.042	11.4472	11.5899
Ca 370.602	60342	61115
Cd 226.502	-2.3635	-2.3173
Co 228.615	575.644	554.622
Cr 267.716	778.936	786.283
Cu 324.754	178.613	186.638
Fe 271.441	509829	517903
K 766.491	3574.20	3626.84
Mg 279.078	16067.3	16202.1
Mn 257.610	94630.2o	78124.0o
Mo 202.032	35.9412	38.2896
Na 330.237	-761.854u	-883.650u
Ni 231.604	119.138	117.737
Pb 220.353	1314.21	1324.22
Sb 206.834	-21.0664u	-27.5464u
Se 196.026	20.7774	27.9663
Sn 189.925	32.0178	31.6910
Sr 216.596	122.323	125.292
Ti 334.941	2432.68	2460.24

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Label	Replicates Concentration			
Tl 190.794	46.5881	46.0696	46.7394	
V 292.401	944.102	956.316	956.257	
Zn 206.200	502.024	504.588	505.458	

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-5.9308b	ppb	0.7063	11.9	-170.683
Al 308.215	155160b	ppb	1110.16	0.7	1320398
As 188.980	205.719b	ppb	1.2854	0.6	224.840
B 249.678	-12.6279b	ppb	0.8466	6.7	-1524.82
Ba 389.178	5643.09b	ppb	43.3436	0.8	186714
Be 313.042	11.5343b	ppb	0.0764	0.7	30183.6
Ca 370.602	60822b	ppb	418.7	0.7	329511
Cd 226.502	-2.1488b	ppb	0.3327	15.5	2965.57
Co 228.615	559.316b	ppb	14.5599	2.6	11051.1
Cr 267.716	783.571b	ppb	4.0339	0.5	64232.0
Cu 324.754	180.574b	ppb	5.3597	3.0	12691.3
Fe 271.441	514924b	ppb	4433.73	0.9	1390584
K 766.491	3607.44b	ppb	28.9210	0.8	223530
Mg 279.078	16242.2b	ppb	197.919	1.2	82008.8
Mn 257.610	83080.0oxb	ppb	10036.3	12.1	28168794
Mo 202.032	36.9579b	ppb	1.2055	3.3	328.991
Na 330.237	-804.588b	ppb	68.5448	8.5	-96.2972
Ni 231.604	118.716b	ppb	0.8508	0.7	673.799
Pb 220.353	1323.06b	ppb	8.3257	0.6	4474.79
Sb 206.834	-27.1530b	ppb	5.8998	21.7	-3.5669
Se 196.026	27.1110b	ppb	5.9523	22.0	39.5933
Sn 189.925	32.6158b	ppb	1.3288	4.1	22.5922
Sr 216.596	123.858b	ppb	1.4871	1.2	4290.58
Ti 334.941	2451.42b	ppb	16.2438	0.7	810223
Tl 190.794	46.4657b	ppb	0.3513	0.8	32.3564
V 292.401	952.225b	ppb	7.0346	0.7	36416.8
Zn 206.200	504.023b	ppb	1.7852	0.4	1507.73

680-115692-a-59-b (Samp)      8/19/2015, 11:42:49 PM      Rack 2, Tube 47  
 Weight: 1      Volume: 1      Dilution: 1

Label	Replicates Concentration			
Ag 328.068	0.1609	0.2164	0.5794	
Al 308.215	88230.0	87985.2	88601.4	
As 188.980	327.119	336.348	330.624	
B 249.678	-44.6901u	-45.7589u	-44.0461u	
Ba 389.178	20715.8x	20710.0x	20807.1x	
Be 313.042	14.0624	14.0282	14.1279	
Ca 370.602	23631	23538	23596	
Cd 226.502	-2.4712	-2.6235	-2.5164	
Co 228.615	384.228	387.317	397.187	
Cr 267.716	425.151	424.843	426.778	
Cu 324.754	151.809	158.714	160.018	
Fe 271.441	599159	598825	601470	
K 766.491	1635.76	1623.76	1639.18	
Mg 279.078	7973.06	7955.03	7970.58	
Mn 257.610	105062o	105061o	101853o	
Mo 202.032	14.7095	15.2792	14.6537	
Na 330.237	-933.182u	-1247.10u	-1023.23u	

E08192015.wvq. All Data Report 8/20/2015, 3:03:52 PM

Label	Replicates Concentration			
Ni 231.604	99.4999	103.389	105.351	
Pb 220.353	453.780	447.712	456.143	
Sb 206.834	-36.3443u	-38.3511u	-34.0621u	
Se 196.026	133.658	108.730	120.763	
Sn 189.925	23.6260	23.3168	25.0641	
Sr 216.596	328.761	327.130	330.565	
Ti 334.941	862.248	861.249	864.591	
Tl 190.794	135.730	131.297	135.035	
V 292.401	792.604	791.482	796.239	
Zn 206.200	479.254	476.836	479.610	

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	0.3189b	ppb	0.2273	71.3	502.523
Al 308.215	88272.2b	ppb	310.278	0.4	751562
As 188.980	331.364b	ppb	4.6589	1.4	372.538
B 249.678	-44.8317b	ppb	0.8652	1.9	-2374.21
Ba 389.178	20744.3xb	ppb	54.4403	0.3	685760
Be 313.042	14.0728b	ppb	0.0507	0.4	36916.2
Ca 370.602	23589b	ppb	47.22	0.2	121369
Cd 226.502	-2.5370b	ppb	0.0782	3.1	3444.01
Co 228.615	389.577b	ppb	6.7685	1.7	7635.71
Cr 267.716	425.591b	ppb	1.0395	0.2	35435.5
Cu 324.754	156.847b	ppb	4.4117	2.8	11113.5
Fe 271.441	599818b	ppb	1440.46	0.2	1619767
K 766.491	1632.90b	ppb	8.0978	0.5	101470
Mg 279.078	7966.22b	ppb	9.7724	0.1	37857.1
Mn 257.610	103992oxb	ppb	1852.65	1.8	35258716
Mo 202.032	14.8808b	ppb	0.3462	2.3	123.915
Na 330.237	-1067.84b	ppb	161.643	15.1	-152.838
Ni 231.604	102.747b	ppb	2.9779	2.9	596.846
Pb 220.353	452.545b	ppb	4.3489	1.0	1672.86
Sb 206.834	-36.2525b	ppb	2.1460	5.9	-26.0937
Se 196.026	121.051b	ppb	12.4664	10.3	119.059
Sn 189.925	24.0023b	ppb	0.9325	3.9	8.6277
Sr 216.596	328.819b	ppb	1.7180	0.5	9313.94
Ti 334.941	862.696b	ppb	1.7156	0.2	285195
Tl 190.794	134.021b	ppb	2.3840	1.8	196.035
V 292.401	793.442b	ppb	2.4866	0.3	30347.1
Zn 206.200	478.567b	ppb	1.5091	0.3	1434.39

680-115692-a-60-b (Samp)      8/19/2015, 11:47:25 PM      Rack 2, Tube 48  
 Weight: 1      Volume: 1      Dilution: 1

Label	Replicates Concentration		
Ag 328.068	-5.7787u	-6.0007u	-5.2463u
Al 308.215	175929	176349	174996
As 188.980	566.151	560.633	559.331
B 249.678	-57.7078u	-59.3333u	-61.3356u
Ba 389.178	18486.0x	18455.2x	18319.2x
Be 313.042	41.1144	41.1100	41.0884
Ca 370.602	31709	31678	31724
Cd 226.502	-7.3475	-8.1773	-8.1517
Co 228.615	457.576	464.373	452.585
Cr 267.716	702.290	702.973	709.656

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<b>Label</b>	<b>Replicates Concentration</b>			
Cu 324.754	75.8631	76.5467	76.0842	
Fe 271.441	1515931x	1531921x	1511796x	
K 766.491	1470.19	1479.67	1467.89	
Mg 279.078	20310.3	20343.2	20290.2	
Mn 257.610	97005.8o	96161.8o	96695.9o	
Mo 202.032	13.1145	14.5861	13.4614	
Na 330.237	-2255.18u	-2337.78u	-2093.70u	
Ni 231.604	122.513	124.194	120.336	
Pb 220.353	441.057	447.567	443.376	
Sb 206.834	-56.4578u	-57.4439u	-53.9607u	
Se 196.026	51.7506	51.2079	51.6202	
Sn 189.925	17.1364	18.2776	19.4199	
Sr 216.596	44.6151	44.5007	45.6602	
Ti 334.941	777.161	777.611	774.796	
Tl 190.794	76.8617u	71.5339u	71.3125u	
V 292.401	1743.87	1743.42	1757.77	
Zn 206.200	582.549	581.774	580.363	

<b>Label</b>	<b>Sol'n Conc.</b>	<b>Units</b>	<b>SD</b>	<b>%RSD</b>	<b>Int. (c/s)</b>
Ag 328.068	-5.6752b	ppb	0.3877	6.8	-258.009
Al 308.215	175758b	ppb	692.111	0.4	1495809
As 188.980	562.039b	ppb	3.6205	0.6	634.823
B 249.678	-59.4589b	ppb	1.8171	3.1	-5113.53
Ba 389.178	18420.1xb	ppb	88.7276	0.5	609739
Be 313.042	41.1043b	ppb	0.0139	0.0	109233
Ca 370.602	31704b	ppb	23.59	0.1	143538
Cd 226.502	-7.8921b	ppb	0.4719	6.0	8459.49
Co 228.615	458.178b	ppb	5.9166	1.3	8954.14
Cr 267.716	704.973b	ppb	4.0701	0.6	58347.8
Cu 324.754	76.1647b	ppb	0.3488	0.5	5982.97
Fe 271.441	1519883xb	ppb	10628.3	0.7	4104004
K 766.491	1472.58b	ppb	6.2462	0.4	91560.0
Mg 279.078	20314.6b	ppb	26.7434	0.1	102867
Mn 257.610	96621.1oxb	ppb	426.912	0.4	32764314
Mo 202.032	13.7207b	ppb	0.7693	5.6	54.8609
Na 330.237	-2228.89b	ppb	124.148	5.6	-626.420
Ni 231.604	122.348b	ppb	1.9340	1.6	788.777
Pb 220.353	444.000b	ppb	3.2993	0.7	1795.89
Sb 206.834	-55.9542b	ppb	1.7954	3.2	-73.1428
Se 196.026	51.5263b	ppb	0.2833	0.5	56.0074
Sn 189.925	18.2780b	ppb	1.1418	6.2	-0.6566
Sr 216.596	44.9254b	ppb	0.6390	1.4	5046.11
Ti 334.941	776.523b	ppb	1.5120	0.2	256871
Tl 190.794	73.2361b	ppb	3.1419	4.3	-60.0325
V 292.401	1748.35b	ppb	8.1564	0.5	66911.3
Zn 206.200	581.562b	ppb	1.1084	0.2	1741.02

Cont Calib Verif (CCV)      8/19/2015, 11:52:01 PM      Rack 2, Tube 49  
 Weight: 1      Volume: 1      Dilution: 1

<b>Label</b>	<b>Replicates Concentration</b>			
Ag 328.068	494.838	493.338	487.260	
Al 308.215	4732.03	4838.86	4793.08	
As 188.980	472.535	485.556	486.448	

Label	Replicates	Concentration					
B 249.678	457.914	469.288	465.134				
Ba 389.178	4800.69	4920.86	4881.55				
Be 313.042	474.497	485.769	479.461				
Ca 370.602	5025	5164	5082				
Cd 226.502	476.971	486.814	480.258				
Co 228.615	473.724	484.378	478.458				
Cr 267.716	4869.86	4976.23	4904.30				
Cu 324.754	5004.64	4930.02	4929.46				
Fe 271.441	4695.95	4808.42	4743.55				
K 766.491	9530.89	9745.54	9618.66				
Mg 279.078	4696.10	4795.09	4738.29				
Mn 257.610	4780.71	4880.27	4805.11				
Mo 202.032	481.056	491.839	484.957				
Na 330.237	6643.39	6700.80	6851.85				
Ni 231.604	2356.01	2409.25	2376.05				
Pb 220.353	473.585	491.153	483.244				
Sb 206.834	964.000	984.998	974.460				
Se 196.026	4682.71	4768.88	4708.60				
Sn 189.925	4779.37	4788.24	4772.38				
Sr 216.596	2371.99	2419.82	2386.55				
Ti 334.941	474.018	484.945	479.734				
Tl 190.794	4804.00	4896.14	4872.66				
V 292.401	4736.00	4836.14	4794.99				
Zn 206.200	2380.82	2435.56	2393.63				

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)	QC Value	
Ag 328.068	491.812	ppb	4.0127	0.8	46632.9	98.36238	
Al 308.215	4787.99	ppb	53.6003	1.1	42077.2	95.75977	
As 188.980	481.513	ppb	7.7880	1.6	556.792	96.30264	
B 249.678	464.112	ppb	5.7554	1.2	9073.48	92.82239	
Ba 389.178	4867.70	ppb	61.2715	1.3	160668	97.35397	
Be 313.042	479.909	ppb	5.6491	1.2	1282144	95.98183	
Ca 370.602	5090	ppb	69.65	1.4	28685	101.80398	
Cd 226.502	481.348	ppb	5.0111	1.0	42599.3	96.26952	
Co 228.615	478.853	ppb	5.3380	1.1	9393.83	95.77068	
Cr 267.716	4916.79	ppb	54.2748	1.1	397731	98.33590	
Cu 324.754	4954.71	ppb	43.2462	0.9	336998	99.09415	
Fe 271.441	4749.31	ppb	56.4553	1.2	13156.8	94.98611	
K 766.491	9631.70	ppb	107.919	1.1	595933	96.31696	
Mg 279.078	4743.16	ppb	49.6740	1.0	24831.5	94.86325	
Mn 257.610	4822.03	ppb	51.8947	1.1	1634905	96.44061	
Mo 202.032	485.951	ppb	5.4595	1.1	4423.41	97.19019	
Na 330.237	6732.01	ppb	107.680	1.6	739.821	89.76015Q	
Ni 231.604	2380.44	ppb	26.8903	1.1	12758.3	95.21747	
Pb 220.353	482.661	ppb	8.7988	1.8	1634.04	96.53217	
Sb 206.834	974.486	ppb	10.4993	1.1	1730.04	97.44860	
Se 196.026	4720.06	ppb	44.2156	0.9	3663.74	94.40126	
Sn 189.925	4780.00	ppb	7.9487	0.2	7718.89	95.59991	
Sr 216.596	2392.79	ppb	24.5164	1.0	56008.8	95.71143	
Ti 334.941	479.566	ppb	5.4655	1.1	158494	95.91314	
Tl 190.794	4857.60	ppb	47.8841	1.0	8973.25	97.15196	
V 292.401	4789.04	ppb	50.3373	1.1	183001	95.78087	
Zn 206.200	2403.34	ppb	28.6311	1.2	7173.37	96.13361	

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Cont Calib Blank (CCB)		8/19/2015, 11:56:36 PM		Rack 2, Tube 50		
Weight: 1		Volume: 1		Dilution: 1		
Label	Replicates	Concentration				
Ag 328.068	-0.4821u	-0.1633u	0.5368			
Al 308.215	-21.0303u	-22.6390u	-21.1399u			
As 188.980	-0.3870u	2.1709	-3.2596u			
B 249.678	3.4051	4.0099	3.2450			
Ba 389.178	1.6295	1.0690	1.6149			
Be 313.042	0.0178	0.0145	0.0241			
Ca 370.602	4.429	5.545	4.235			
Cd 226.502	0.3705	0.4708	0.4079			
Co 228.615	-0.0424u	0.9696	0.3003			
Cr 267.716	-0.0249u	-0.1925u	-0.1110u			
Cu 324.754	-0.4095u	0.0865	0.4757			
Fe 271.441	-4.0288u	-5.9752u	-4.1823u			
K 766.491	-0.7493u	-0.4573u	-0.5553u			
Mg 279.078	-2.1591u	-1.1842u	-4.0681u			
Mn 257.610	0.1812	0.1809	0.1827			
Mo 202.032	0.5747	0.2147	0.3347			
Na 330.237	-130.004u	-380.644u	-59.1149u			
Ni 231.604	2.1982	2.4992	2.0078			
Pb 220.353	-2.1485u	-1.5038u	-2.7583u			
Sb 206.834	-7.3893u	-4.5343u	-4.0580u			
Se 196.026	-3.2449u	0.0908	-2.0346u			
Sn 189.925	0.6300	-0.0098u	1.3735			
Sr 216.596	-0.0335u	0.1709	-0.0756u			
Ti 334.941	0.0835	0.0784	0.0940			
Tl 190.794	2.6074	4.3868	2.0261			
V 292.401	-0.0004u	0.3320	0.5918			
Zn 206.200	0.3599	-0.3036u	0.2673			
Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)	QC Value
Ag 328.068	-0.0362	ppb	0.5212	1439.1	8.0715	-0.03622
Al 308.215	-21.6030	ppb	0.8988	4.2	507.622	-21.60305
As 188.980	-0.4919	ppb	2.7167	552.3	-13.1607	-0.49191
B 249.678	3.5533	ppb	0.4034	11.4	164.200	3.55333
Ba 389.178	1.4378	ppb	0.3195	22.2	-165.224	1.43781
Be 313.042	0.0188	ppb	0.0049	26.1	-661.233	0.01880
Ca 370.602	4.736	ppb	0.7074	14.9	-8.645	4.73624
Cd 226.502	0.4164	ppb	0.0507	12.2	127.779	0.41637
Co 228.615	0.4092	ppb	0.5147	125.8	-63.3185	0.40916
Cr 267.716	-0.1095	ppb	0.0838	76.6	34.5579	-0.10947
Cu 324.754	0.0509	ppb	0.4437	871.7	225.153	0.05090
Fe 271.441	-4.7288	ppb	1.0822	22.9	142.531	-4.72876
K 766.491	-0.5873	ppb	0.1486	25.3	492.644	-0.58730
Mg 279.078	-2.4705	ppb	1.4669	59.4	96.7607	-2.47049
Mn 257.610	0.1816	ppb	0.0009	0.5	98.5215	0.18159
Mo 202.032	0.3747	ppb	0.1833	48.9	30.9227	0.37473
Na 330.237	-189.921	ppb	168.931	88.9	166.838	-189.92110
Ni 231.604	2.2351	ppb	0.2478	11.1	2.5013	2.23508
Pb 220.353	-2.1368	ppb	0.6274	29.4	55.5707	-2.13685
Sb 206.834	-5.3272	ppb	1.8017	33.8	31.2197	-5.32720
Se 196.026	-1.7296	ppb	1.6886	97.6	-11.2240	-1.72956
Sn 189.925	0.6645	ppb	0.6923	104.2	-29.2038	0.66454
Sr 216.596	0.0206	ppb	0.1318	639.7	59.2258	0.02061

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Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)	QC Value
Ti 334.941	0.0853	ppb	0.0080	9.3	33.2354	0.08526
Tl 190.794	3.0068	ppb	1.2300	40.9	-45.6417	3.00678
V 292.401	0.3078	ppb	0.2968	96.4	-16.9826	0.30779
Zn 206.200	0.1079	ppb	0.3593	333.1	1.9807	0.10787

mb 680-396700/1-a (Samp)      8/20/2015, 12:01:12 AM      Rack 2, Tube 51  
 Weight: 1      Volume: 1      Dilution: 1

Label	Replicates	Concentration				
Ag 328.068	-0.4682u	-0.1145u	-0.0209u			
Al 308.215	-9.0007u	-14.9994u	-13.5801u			
As 188.980	-3.8286u	-4.4122u	0.0187			
B 249.678	2.2032	1.6502	1.6246			
Ba 389.178	1.5993	1.4788	1.8407			
Be 313.042	0.0034	0.0144	0.0139			
Ca 370.602	24.00	22.01	17.95			
Cd 226.502	0.5322	0.4488	0.4694			
Co 228.615	0.3134	0.2341	0.9439			
Cr 267.716	-0.0258u	0.1197	0.1450			
Cu 324.754	0.9213	0.7031	1.4033			
Fe 271.441	8.3344	3.5771	-0.4087u			
K 766.491	8.8740	7.2598	7.7636			
Mg 279.078	5.1356	3.1659	0.1996			
Mn 257.610	0.2629	0.2493	0.2465			
Mo 202.032	0.5129	0.2124	0.0934			
Na 330.237	113.172	-24.2347u	103.352			
Ni 231.604	2.6453	2.2010	2.7256			
Pb 220.353	-1.6511u	-1.9251u	-0.0016u			
Sb 206.834	-6.8609u	-3.0779u	-3.2377u			
Se 196.026	3.8756	-3.3455u	-1.2868u			
Sn 189.925	14.1273	12.1059	13.6644			
Sr 216.596	0.6528	-0.0457u	0.3170			
Ti 334.941	0.1850	0.1487	0.1468			
Tl 190.794	0.1487	-1.4228u	0.4539			
V 292.401	0.2857	0.6108	0.4221			
Zn 206.200	3.3232	2.2830	2.4341			

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.2012	ppb	0.2359	117.3	-7.5852
Al 308.215	-12.5267	ppb	3.1350	25.0	584.818
As 188.980	-2.7407	ppb	2.4074	87.8	-15.8216
B 249.678	1.8260	ppb	0.3269	17.9	130.797
Ba 389.178	1.6396	ppb	0.1843	11.2	-158.534
Be 313.042	0.0106	ppb	0.0062	58.7	-683.271
Ca 370.602	21.32	ppb	3.083	14.5	82.71
Cd 226.502	0.4835	ppb	0.0434	9.0	133.771
Co 228.615	0.4971	ppb	0.3889	78.2	-61.5844
Cr 267.716	0.0796	ppb	0.0922	115.8	49.8638
Cu 324.754	1.0093	ppb	0.3583	35.5	290.300
Fe 271.441	3.8343	ppb	4.3772	114.2	165.678
K 766.491	7.9658	ppb	0.8259	10.4	1021.37
Mg 279.078	2.8337	ppb	2.4847	87.7	124.617
Mn 257.610	0.2529	ppb	0.0088	3.5	122.819
Mo 202.032	0.2729	ppb	0.2162	79.2	29.9988

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Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Na 330.237	64.0962	ppb	76.6544	119.6	188.047
Ni 231.604	2.5239	ppb	0.2826	11.2	4.0514
Pb 220.353	-1.1926	ppb	1.0405	87.2	58.6399
Sb 206.834	-4.3922	ppb	2.1395	48.7	32.7800
Se 196.026	-0.2522	ppb	3.7200	1474.8	-10.0749
Sn 189.925	13.2992	ppb	1.0590	8.0	-8.7207
Sr 216.596	0.3080	ppb	0.3494	113.4	65.9781
Ti 334.941	0.1602	ppb	0.0215	13.4	57.9907
Tl 190.794	-0.2734	ppb	1.0071	368.4	-51.7240
V 292.401	0.4395	ppb	0.1632	37.1	-11.9079
Zn 206.200	2.6801	ppb	0.5620	21.0	9.6987

lcs 680-396700/2-a (Samp)      8/20/2015, 12:05:48 AM      Rack 2, Tube 52  
 Weight: 1      Volume: 1      Dilution: 1

Label	Replicates	Concentration
Ag 328.068	45.3542	45.7652
Al 308.215	4587.93	4582.59
As 188.980	94.9218	95.6706
B 249.678	177.578	176.287
Ba 389.178	97.5440	95.8971
Be 313.042	48.7652	48.8651
Ca 370.602	4869	4888
Cd 226.502	48.9950	48.8269
Co 228.615	49.1492	48.9294
Cr 267.716	96.2846	96.4958
Cu 324.754	95.5143	96.0501
Fe 271.441	4564.21	4588.36
K 766.491	4723.41	4707.82
Mg 279.078	4498.97	4481.30
Mn 257.610	472.340	472.324
Mo 202.032	93.8683	93.4910
Na 330.237	4511.27	4429.04
Ni 231.604	95.0854	95.6614
Pb 220.353	456.906	456.826
Sb 206.834	44.9926	46.2033
Se 196.026	93.9198	89.6592
Sn 189.925	197.371	195.974
Sr 216.596	93.0804	92.6673
Ti 334.941	94.6631	94.9144
Tl 190.794	41.6988	41.6604
V 292.401	94.3891	95.2708
Zn 206.200	94.5095	94.6454
		94.4021

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	45.5131	ppb	0.2208	0.5	4329.21
Al 308.215	4578.08	ppb	12.7157	0.3	39642.5
As 188.980	94.6853	ppb	1.1223	1.2	99.3422
B 249.678	176.638	ppb	0.8228	0.5	3499.64
Ba 389.178	96.3870	ppb	1.0059	1.0	2987.70
Be 313.042	48.7388	ppb	0.1414	0.3	129534
Ca 370.602	4869	ppb	19.23	0.4	26847
Cd 226.502	48.7792	ppb	0.2433	0.5	4423.06
Co 228.615	49.0335	ppb	0.1104	0.2	895.545

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<b>Label</b>	<b>Sol'n Conc.</b>	<b>Units</b>	<b>SD</b>	<b>%RSD</b>	<b>Int. (c/s)</b>
Cr 267.716	96.2885	ppb	0.2054	0.2	7835.92
Cu 324.754	96.3587	ppb	1.0339	1.1	6776.21
Fe 271.441	4568.79	ppb	17.7251	0.4	12501.5
K 766.491	4711.56	ppb	10.4992	0.2	291784
Mg 279.078	4483.74	ppb	14.1714	0.3	23642.9
Mn 257.610	471.284	ppb	1.8152	0.4	159889
Mo 202.032	93.6525	ppb	0.1944	0.2	875.679
Na 330.237	4447.15	ppb	57.2461	1.3	552.130
Ni 231.604	95.4433	ppb	0.3124	0.3	502.727
Pb 220.353	455.932	ppb	1.6169	0.4	1543.83
Sb 206.834	44.8758	ppb	1.3896	3.1	114.328
Se 196.026	92.7156	ppb	2.6667	2.9	62.3944
Sn 189.925	197.804	ppb	2.0802	1.1	290.395
Sr 216.596	92.5628	ppb	0.5771	0.6	2233.56
Ti 334.941	94.7140	ppb	0.1803	0.2	31314.2
Tl 190.794	41.2117	ppb	0.8107	2.0	25.1708
V 292.401	94.8180	ppb	0.4413	0.5	3573.04
Zn 206.200	94.5190	ppb	0.1220	0.1	284.510

**680-115692-a-21-d (Samp)**      **8/20/2015, 12:10:23 AM**      **Rack 2, Tube 53**  
**Weight: 1**      **Volume: 1**      **Dilution: 1**

<b>Label</b>	<b>Replicates</b>	<b>Concentration</b>
Ag 328.068	-3.2574u	-3.5036u
Al 308.215	204337	204477
As 188.980	145.568	134.265
B 249.678	2.8957u	3.0907u
Ba 389.178	1433.17	1439.92
Be 313.042	7.6211	7.6356
Ca 370.602	23752	23793
Cd 226.502	-0.1032	0.0791
Co 228.615	136.621	136.811
Cr 267.716	349.605	350.088
Cu 324.754	169.807	165.425
Fe 271.441	317479	319711
K 766.491	7378.11	7415.92
Mg 279.078	5845.73	5875.93
Mn 257.610	20601.1	20698.8
Mo 202.032	13.6971	13.2087
Na 330.237	-544.849u	-734.445u
Ni 231.604	112.582	111.905
Pb 220.353	839.628	845.847
Sb 206.834	-14.8111u	-16.7736u
Se 196.026	16.5936	16.1224
Sn 189.925	33.2441	32.5920
Sr 216.596	114.762	115.739
Ti 334.941	1875.92	1885.49
Tl 190.794	17.4159	24.0919
V 292.401	605.560	608.969
Zn 206.200	912.451	919.643

<b>Label</b>	<b>Sol'n Conc.</b>	<b>Units</b>	<b>SD</b>	<b>%RSD</b>	<b>Int. (c/s)</b>
Ag 328.068	-3.4861	ppb	0.2204	6.3	-262.206
Al 308.215	204135	ppb	476.426	0.2	1736821

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Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
As 188.980	139.666	ppb	5.6682	4.1	148.976
B 249.678	2.5381	ppb	0.7942	31.3	-706.731
Ba 389.178	1434.78	ppb	4.5564	0.3	47471.2
Be 313.042	7.6329	ppb	0.0107	0.1	19755.4
Ca 370.602	23770	ppb	20.69	0.1	126119
Cd 226.502	-0.0597	ppb	0.1230	206.1	1979.55
Co 228.615	137.090	ppb	0.6551	0.5	2694.42
Cr 267.716	349.837	ppb	0.2421	0.1	28618.8
Cu 324.754	167.231	ppb	2.2901	1.4	11709.6
Fe 271.441	318568	ppb	1117.15	0.4	860335
K 766.491	7380.80	ppb	33.8537	0.5	456789
Mg 279.078	5859.15	ppb	15.3775	0.3	29916.6
Mn 257.610	20653.2	ppb	49.1504	0.2	7003554
Mo 202.032	13.3759	ppb	0.2783	2.1	128.033
Na 330.237	-645.575	ppb	95.3526	14.8	-3.0627
Ni 231.604	112.783	ppb	0.9939	0.9	625.226
Pb 220.353	840.931	ppb	4.4116	0.5	2848.63
Sb 206.834	-14.4910	ppb	2.4582	17.0	14.8869
Se 196.026	15.2789	ppb	1.8838	12.3	7.6243
Sn 189.925	33.6548	ppb	1.3170	3.9	24.2774
Sr 216.596	115.149	ppb	0.5193	0.5	3577.56
Ti 334.941	1879.49	ppb	5.2284	0.3	621178
Tl 190.794	18.9731	ppb	4.5449	24.0	-45.0580
V 292.401	607.144	ppb	1.7175	0.3	23223.5
Zn 206.200	915.148	ppb	3.9185	0.4	2745.11

680-115692-a-21-dSD (Samp)

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Rack 2, Tube 54

Weight: 1

Volume: 1

Dilution: 1

Label	Replicates	Concentration	
Ag 328.068	-1.2976u	-1.1819u	-1.0788u
Al 308.215	49369.8	48465.4	48794.6
As 188.980	30.3954	28.5964	28.3632
B 249.678	1.1481u	0.3046u	0.3635u
Ba 389.178	341.584	336.289	338.290
Be 313.042	1.8254	1.7987	1.8081
Ca 370.602	5729	5616	5653
Cd 226.502	0.1137	0.1104	0.1589
Co 228.615	33.8442	33.3670	33.1055
Cr 267.716	83.3810	82.2058	82.2099
Cu 324.754	39.1740	38.6179	39.2052
Fe 271.441	77985.3	76548.2	77065.9
K 766.491	1625.81	1596.89	1605.22
Mg 279.078	1427.90	1396.65	1408.48
Mn 257.610	5334.91	5237.93	5268.91
Mo 202.032	2.6413	3.0007	2.9861
Na 330.237	-236.125u	-221.591u	-37.2190u
Ni 231.604	28.4649	28.6376	28.5753
Pb 220.353	202.097	198.304	199.288
Sb 206.834	-7.7950u	0.3625	-12.3372u
Se 196.026	6.7107	3.6417	5.6901
Sn 189.925	11.1845	9.8588	5.9460
Sr 216.596	28.0468	27.0470	27.3289
Ti 334.941	459.608	451.385	453.647

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<b>Label</b>	<b>Replicates</b>	<b>Concentration</b>	
Tl 190.794	8.2409	5.8984	7.2066
V 292.401	144.055	140.945	141.954
Zn 206.200	218.273	217.095	216.419

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-1.1861	ppb	0.1094	9.2	-85.6003
Al 308.215	48876.6	ppb	457.737	0.9	416378
As 188.980	29.1183	ppb	1.1121	3.8	20.9780
B 249.678	0.6054	ppb	0.4709	77.8	-99.1606
Ba 389.178	338.721	ppb	2.6734	0.8	11046.1
Be 313.042	1.8108	ppb	0.0135	0.7	4143.77
Ca 370.602	5666	ppb	57.22	1.0	30029
Cd 226.502	0.1277	ppb	0.0271	21.2	561.388
Co 228.615	33.4389	ppb	0.3746	1.1	603.157
Cr 267.716	82.5989	ppb	0.6773	0.8	6794.08
Cu 324.754	38.9991	ppb	0.3304	0.8	2901.87
Fe 271.441	77199.8	ppb	727.832	0.9	208606
K 766.491	1609.31	ppb	14.8870	0.9	100012
Mg 279.078	1411.01	ppb	15.7772	1.1	7275.70
Mn 257.610	5280.58	ppb	49.5294	0.9	1790662
Mo 202.032	2.8760	ppb	0.2034	7.1	48.5780
Na 330.237	-164.978	ppb	110.881	67.2	136.967
Ni 231.604	28.5593	ppb	0.0875	0.3	150.915
Pb 220.353	199.896	ppb	1.9682	1.0	725.188
Sb 206.834	-6.5899	ppb	6.4350	97.7	28.8277
Se 196.026	5.3475	ppb	1.5629	29.2	-4.2490
Sn 189.925	8.9964	ppb	2.7236	30.3	-15.6967
Sr 216.596	27.4742	ppb	0.5155	1.9	901.468
Ti 334.941	454.880	ppb	4.2478	0.9	150343
Tl 190.794	7.1153	ppb	1.1739	16.5	-44.8327
V 292.401	142.318	ppb	1.5868	1.1	5421.94
Zn 206.200	217.262	ppb	0.9381	0.4	652.973

680-115692-a-21-dPDS (Samp) 8/20/2015, 12:19:34 AM Rack 2, Tube 55

**Weight: 1**      **Volume: 1**      **Dilution: 1**

Label	Replicates	Concentration	
Ag 328.068	53.8724	51.6445	50.4857
Al 308.215	202484	202403	202856
As 188.980	223.760	225.649	220.819
B 249.678	160.264	161.740	161.742
Ba 389.178	1494.75	1493.51	1500.59
Be 313.042	93.6412	93.5801	93.8698
Ca 370.602	32273	32148	32361
Cd 226.502	82.2263	82.2438	81.9164
Co 228.615	220.342	221.605	213.775
Cr 267.716	435.247	434.059	435.285
Cu 324.754	257.717	266.118	257.835
Fe 271.441	323020	322836	323750
K 766.491	16051.5	16060.1	16158.2
Mg 279.078	13857.8	13779.0	13900.7
Mn 257.610	21201.7	21185.3	21243.0
Mo 202.032	97.2610	96.6989	96.9541
Na 330.237	7283.12	7217.37	7249.21

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Label	Replicates Concentration		
Ni 231.604	197.616	197.043	196.695
Pb 220.353	913.113	911.032	909.509
Sb 206.834	66.5708	73.2681	71.6073
Se 196.026	97.8262	92.1771	83.6668
Sn 189.925	117.795	118.805	120.419
Sr 216.596	196.131	194.717	194.876
Ti 334.941	1954.84	1956.86	1962.51
Tl 190.794	36.2420	34.8792	37.0266
V 292.401	681.902	682.292	683.078
Zn 206.200	991.497	988.684	987.130

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	52.0009	ppb	1.7212	3.3	5002.84
Al 308.215	202581	ppb	241.601	0.1	1723621
As 188.980	223.409	ppb	2.4339	1.1	247.956
B 249.678	161.249	ppb	0.8529	0.5	2351.23
Ba 389.178	1496.29	ppb	3.7818	0.3	49527.4
Be 313.042	93.6970	ppb	0.1527	0.2	249755
Ca 370.602	32261	ppb	107.2	0.3	172984
Cd 226.502	82.1288	ppb	0.1842	0.2	9260.52
Co 228.615	218.574	ppb	4.2041	1.9	4302.49
Cr 267.716	434.864	ppb	0.6972	0.2	35500.5
Cu 324.754	260.557	ppb	4.8162	1.8	18057.8
Fe 271.441	323202	ppb	483.328	0.1	872864
K 766.491	16090.0	ppb	59.2478	0.4	995164
Mg 279.078	13845.9	ppb	61.7406	0.4	71854.1
Mn 257.610	21210.0	ppb	29.7350	0.1	7192414
Mo 202.032	96.9713	ppb	0.2814	0.3	885.084
Na 330.237	7249.90	ppb	32.8811	0.5	654.392
Ni 231.604	197.118	ppb	0.4652	0.2	1077.71
Pb 220.353	911.218	ppb	1.8088	0.2	3077.64
Sb 206.834	70.4821	ppb	3.4875	4.9	155.659
Se 196.026	91.2234	ppb	7.1277	7.8	66.8815
Sn 189.925	119.007	ppb	1.3234	1.1	162.652
Sr 216.596	195.242	ppb	0.7741	0.4	5460.96
Ti 334.941	1958.07	ppb	3.9781	0.2	647160
Tl 190.794	36.0493	ppb	1.0866	3.0	-13.2341
V 292.401	682.424	ppb	0.5988	0.1	26080.3
Zn 206.200	989.104	ppb	2.2134	0.2	2966.36

680-115692-a-21-e ms (Samp)    8/20/2015, 12:24:09 AM    Rack 2, Tube 56  
 Weight: 1    Volume: 1    Dilution: 1

Label	Replicates Concentration		
Ag 328.068	42.9894	42.1856	41.8315
Al 308.215	202360	200655	202376
As 188.980	245.593	243.858	240.540
B 249.678	111.139	110.417	109.574
Ba 389.178	1806.72	1785.84	1799.14
Be 313.042	56.2599	56.0279	56.3067
Ca 370.602	33313	33181	33506
Cd 226.502	45.8859	45.1072	45.6945
Co 228.615	195.105	192.700	190.682
Cr 267.716	670.337	668.708	672.830

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<b>Label</b>	<b>Replicates</b>	<b>Concentration</b>	
Cu 324.754	281.655	277.266	271.582
Fe 271.441	312175	310525	312541
K 766.491	12014.1	11885.5	11954.0
Mg 279.078	10338.8	10296.5	10353.3
Mn 257.610	22235.3	22104.1	22304.1
Mo 202.032	90.9172	90.8235	92.1046
Na 330.237	3631.50	3831.52	3588.81
Ni 231.604	204.509	204.276	203.632
Pb 220.353	1736.31	1728.86	1745.94
Sb 206.834	15.8666	8.9482	16.1280
Se 196.026	93.9593	92.7424	80.8054
Sn 189.925	217.543	215.950	216.649
Sr 216.596	241.038	241.389	243.866
Ti 334.941	2170.31	2165.29	2176.77
Tl 190.794	59.5033	53.4834	53.7754
V 292.401	684.212	681.929	685.308
Zn 206.200	1142.83	1131.24	1142.53

<b>Label</b>	<b>Sol'n Conc.</b>	<b>Units</b>	<b>SD</b>	<b>%RSD</b>	<b>Int. (c/s)</b>
Ag 328.068	42.3355	ppb	0.5933	1.4	4091.92
Al 308.215	201797	ppb	989.119	0.5	1716957
As 188.980	243.330	ppb	2.5674	1.1	271.663
B 249.678	110.377	ppb	0.7832	0.7	1397.22
Ba 389.178	1797.23	ppb	10.5718	0.6	59454.0
Be 313.042	56.1981	ppb	0.1493	0.3	149539
Ca 370.602	33333	ppb	163.7	0.5	179417
Cd 226.502	45.5625	ppb	0.4058	0.9	5964.14
Co 228.615	192.829	ppb	2.2144	1.1	3803.17
Cr 267.716	670.625	ppb	2.0763	0.3	54575.9
Cu 324.754	276.835	ppb	5.0502	1.8	19159.6
Fe 271.441	311747	ppb	1074.03	0.3	841931
K 766.491	11951.2	ppb	64.3822	0.5	739318
Mg 279.078	10329.5	ppb	29.5198	0.3	53341.2
Mn 257.610	22214.5	ppb	101.649	0.5	7532876
Mo 202.032	91.2818	ppb	0.7142	0.8	834.241
Na 330.237	3683.94	ppb	129.573	3.5	361.023
Ni 231.604	204.139	ppb	0.4540	0.2	1114.40
Pb 220.353	1737.04	ppb	8.5628	0.5	5758.34
Sb 206.834	13.6476	ppb	4.0719	29.8	65.5894
Se 196.026	89.1690	ppb	7.2686	8.2	65.7640
Sn 189.925	216.714	ppb	0.7984	0.4	321.050
Sr 216.596	242.097	ppb	1.5414	0.6	6528.88
Ti 334.941	2170.79	ppb	5.7575	0.3	717448
Tl 190.794	55.5874	ppb	3.3944	6.1	25.5273
V 292.401	683.817	ppb	1.7239	0.3	26122.6
Zn 206.200	1138.87	ppb	6.6057	0.6	3413.84

680-115692-a-21-f ms (Samp)    8/20/2015, 12:28:45 AM    Rack 2, Tube 57  
 Weight: 1    Volume: 1    Dilution: 1

<b>Label</b>	<b>Replicates</b>	<b>Concentration</b>	
Ag 328.068	40.3985	40.1277	41.0008
Al 308.215	190950	191012	189997
As 188.980	232.043	229.873	227.251

<b>Label</b>	<b>Replicates</b>	<b>Concentration</b>			
B 249.678	116.764	116.658	116.278		
Ba 389.178	1563.58	1553.59	1554.33		
Be 313.042	56.2471	56.1782	55.6624		
Ca 370.602	46101	45888	45558		
Cd 226.502	45.6520	45.5735	45.2048		
Co 228.615	204.967	205.821	202.368		
Cr 267.716	530.877	528.051	522.803		
Cu 324.754	246.456	247.352	241.998		
Fe 271.441	299843	298455	296649		
K 766.491	11860.9	11849.6	11747.4		
Mg 279.078	9949.64	9930.16	9859.37		
Mn 257.610	24118.2	24042.9	23858.7		
Mo 202.032	91.8934	92.0399	91.4829		
Na 330.237	3822.16	3908.58	4120.35		
Ni 231.604	195.975	194.114	193.279		
Pb 220.353	1314.19	1309.75	1302.19		
Sb 206.834	12.0866	19.9818	15.8326		
Se 196.026	93.8532	86.1926	89.9215		
Sn 189.925	221.811	221.370	225.795		
Sr 216.596	226.625	226.069	224.668		
Ti 334.941	2621.25	2613.45	2592.40		
Tl 190.794	51.7519	54.5263	55.9630		
V 292.401	700.991	696.983	694.382		
Zn 206.200	823.422	817.542	813.847		

<b>Label</b>	<b>Sol'n Conc.</b>	<b>Units</b>	<b>SD</b>	<b>%RSD</b>	<b>Int. (c/s)</b>
Ag 328.068	40.5090	ppb	0.4469	1.1	3932.12
Al 308.215	190653	ppb	569.247	0.3	1622183
As 188.980	229.723	ppb	2.3994	1.0	255.717
B 249.678	116.567	ppb	0.2555	0.2	1552.57
Ba 389.178	1557.17	ppb	5.5646	0.4	51509.6
Be 313.042	56.0292	ppb	0.3195	0.6	149093
Ca 370.602	45849	ppb	273.4	0.6	249320
Cd 226.502	45.4768	ppb	0.2388	0.5	5874.82
Co 228.615	204.386	ppb	1.7985	0.9	4047.46
Cr 267.716	527.244	ppb	4.0970	0.8	42986.3
Cu 324.754	245.269	ppb	2.8676	1.2	17008.2
Fe 271.441	298316	ppb	1601.89	0.5	805667
K 766.491	11819.3	ppb	62.5348	0.5	731166
Mg 279.078	9913.06	ppb	47.5046	0.5	51089.5
Mn 257.610	24006.6	ppb	133.506	0.6	8140369
Mo 202.032	91.8054	ppb	0.2887	0.3	839.796
Na 330.237	3950.36	ppb	153.421	3.9	389.132
Ni 231.604	194.456	ppb	1.3800	0.7	1061.13
Pb 220.353	1308.71	ppb	6.0685	0.5	4365.41
Sb 206.834	15.9670	ppb	3.9493	24.7	67.3648
Se 196.026	89.9891	ppb	3.8307	4.3	67.2038
Sn 189.925	222.992	ppb	2.4376	1.1	331.228
Sr 216.596	225.787	ppb	1.0083	0.4	6112.48
Ti 334.941	2609.04	ppb	14.9232	0.6	862270
Tl 190.794	54.0804	ppb	2.1407	4.0	26.4479
V 292.401	697.452	ppb	3.3291	0.5	26658.4
Zn 206.200	818.271	ppb	4.8288	0.6	2452.91

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**680-115692-a-40-b (Samp)** **8/20/2015, 12:33:21 AM** **Rack 2, Tube 58**  
**Weight: 1** **Volume: 1** **Dilution: 1**

<b>Label</b>	<b>Replicates</b>	<b>Concentration</b>			
Ag 328.068	-1.3482u	-1.2333u	-1.1844u		
Al 308.215	121857	121680	123620		
As 188.980	237.525	230.943	237.883		
B 249.678	-10.5797u	-10.0951u	-12.8239u		
Ba 389.178	1306.85	1308.62	1326.88		
Be 313.042	5.1965	5.1819	5.2700		
Ca 370.602	29286	29294	29811		
Cd 226.502	-4.3344	-4.1368	-3.7361		
Co 228.615	109.987	110.691	112.910		
Cr 267.716	849.431	845.256	864.765		
Cu 324.754	179.768	176.280	177.689		
Fe 271.441	508622	509243	517296		
K 766.491	3299.78	3299.84	3361.91		
Mg 279.078	6717.04	6713.46	6786.37		
Mn 257.610	13929.3	13944.8	14152.7		
Mo 202.032	18.6101	19.0782	19.9185		
Na 330.237	-679.988u	-558.706u	-882.688u		
Ni 231.604	63.2195	64.2355	64.1569		
Pb 220.353	532.626	532.551	535.378		
Sb 206.834	-18.4143u	-23.9915u	-21.7436u		
Se 196.026	4.3212	28.0977	20.7741		
Sn 189.925	29.2345	24.6241	24.9599		
Sr 216.596	142.334	142.454	144.099		
Ti 334.941	1785.33	1793.13	1819.65		
Tl 190.794	29.4021u	22.0916u	23.1434u		
V 292.401	816.479	816.648	829.128		
Zn 206.200	316.765	317.118	320.609		

<b>Label</b>	<b>Sol'n Conc.</b>	<b>Units</b>	<b>SD</b>	<b>%RSD</b>	<b>Int. (c/s)</b>
Ag 328.068	-1.2553	ppb	0.0841	6.7	-126.991
Al 308.215	122386	ppb	1072.61	0.9	1041666
As 188.980	235.450	ppb	3.9078	1.7	260.069
B 249.678	-11.1662	ppb	1.4559	13.0	-1487.49
Ba 389.178	1314.12	ppb	11.0907	0.8	43643.5
Be 313.042	5.2161	ppb	0.0472	0.9	13302.4
Ca 370.602	29464	ppb	300.7	1.0	152472
Cd 226.502	-4.0691	ppb	0.3048	7.5	2778.35
Co 228.615	111.196	ppb	1.5252	1.4	2173.94
Cr 267.716	853.151	ppb	10.2724	1.2	69356.1
Cu 324.754	177.912	ppb	1.7545	1.0	12510.1
Fe 271.441	511720	ppb	4838.54	0.9	1381854
K 766.491	3320.51	ppb	35.8496	1.1	205793
Mg 279.078	6738.96	ppb	41.0988	0.6	34863.9
Mn 257.610	14008.9	ppb	124.733	0.9	4751871
Mo 202.032	19.2023	ppb	0.6629	3.5	168.514
Na 330.237	-707.128	ppb	163.687	23.1	-86.4628
Ni 231.604	63.8706	ppb	0.5653	0.9	381.164
Pb 220.353	533.518	ppb	1.6110	0.3	1882.71
Sb 206.834	-21.3831	ppb	2.8060	13.1	7.5144
Se 196.026	17.7310	ppb	12.1768	68.7	5.4713
Sn 189.925	26.2728	ppb	2.5703	9.8	12.3092
Sr 216.596	142.962	ppb	0.9865	0.7	4732.75

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Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ti 334.941	1799.37	ppb	17.9913	1.0	594723
Tl 190.794	24.8790	ppb	3.9522	15.9	-69.2166
V 292.401	820.752	ppb	7.2543	0.9	31374.0
Zn 206.200	318.164	ppb	2.1246	0.7	949.400

680-115692-a-24-b (Samp)      8/20/2015, 12:37:57 AM      Rack 2, Tube 59  
 Weight: 1      Volume: 1      Dilution: 1

Label	Replicates	Concentration				
Ag 328.068	-1.9506u	-0.4745u	-0.9892u			
Al 308.215	123116	122528	122317			
As 188.980	185.214	197.169	192.024			
B 249.678	5.9812u	5.9616u	7.7041u			
Ba 389.178	1064.02	1057.14	1060.66			
Be 313.042	5.9760	5.9499	5.9507			
Ca 370.602	190585	190541	190356			
Cd 226.502	-1.2775	-1.5260	-1.3290			
Co 228.615	60.7170	60.4435	62.3179			
Cr 267.716	623.029	621.409	622.539			
Cu 324.754	141.423	142.030	142.639			
Fe 271.441	425839	424037	424907			
K 766.491	4741.25	4694.96	4707.85			
Mg 279.078	68436.7	68310.1	68401.8			
Mn 257.610	13306.2	13274.9	12849.7			
Mo 202.032	11.7162	13.0891	12.1436			
Na 330.237	-522.620u	-526.856u	-470.467u			
Ni 231.604	53.7901	54.2195	54.9959			
Pb 220.353	408.813	406.164	412.131			
Sb 206.834	-10.4416u	-11.2011u	-11.5687u			
Se 196.026	19.2168	23.1418	13.2310			
Sn 189.925	30.1984	30.0803	31.1915			
Sr 216.596	184.413	184.400	184.952			
Ti 334.941	2894.40	2885.22	2891.94			
Tl 190.794	19.1989u	17.9362u	15.3450u			
V 292.401	789.659	787.901	789.857			
Zn 206.200	574.527	575.826	578.725			

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-1.1381	ppb	0.7492	65.8	-107.490
Al 308.215	122654	ppb	414.083	0.3	1043931
As 188.980	191.469	ppb	5.9970	3.1	209.039
B 249.678	6.5490	ppb	1.0004	15.3	-913.304
Ba 389.178	1060.61	ppb	3.4401	0.3	35344.3
Be 313.042	5.9589	ppb	0.0149	0.2	15362.5
Ca 370.602	190494	ppb	121.2	0.1	1044712
Cd 226.502	-1.3775	ppb	0.1312	9.5	2495.54
Co 228.615	61.1595	ppb	1.0125	1.7	1227.90
Cr 267.716	622.326	ppb	0.8308	0.1	50647.5
Cu 324.754	142.031	ppb	0.6081	0.4	10036.4
Fe 271.441	424928	ppb	901.213	0.2	1147503
K 766.491	4714.68	ppb	23.8890	0.5	291977
Mg 279.078	68382.9	ppb	65.3772	0.1	358744
Mn 257.610	13143.6	ppb	254.991	1.9	4458841
Mo 202.032	12.3163	ppb	0.7026	5.7	111.555

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Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Na 330.237	-506.648	ppb	31.4049	6.2	-34.6533
Ni 231.604	54.3352	ppb	0.6112	1.1	322.014
Pb 220.353	409.036	ppb	2.9898	0.7	1462.15
Sb 206.834	-11.0704	ppb	0.5748	5.2	22.8067
Se 196.026	18.5299	ppb	4.9910	26.9	6.4192
Sn 189.925	30.4901	ppb	0.6103	2.0	19.1466
Sr 216.596	184.588	ppb	0.3148	0.2	5483.84
Ti 334.941	2890.52	ppb	4.7516	0.2	955422
Tl 190.794	17.4934	ppb	1.9647	11.2	-70.5586
V 292.401	789.139	ppb	1.0767	0.1	30191.6
Zn 206.200	576.359	ppb	2.1492	0.4	1726.15

680-115692-a-28-b (Samp)      8/20/2015, 12:42:33 AM      Rack 2, Tube 60  
 Weight: 1      Volume: 1      Dilution: 1

Label	Replicates	Concentration			
Ag 328.068	-2.4544u	-3.4634u	-2.2010u		
Al 308.215	157261	155697	156366		
As 188.980	304.598	297.293	296.158		
B 249.678	-22.0815u	-23.5360u	-20.5445u		
Ba 389.178	2912.59	2898.60	2907.38		
Be 313.042	27.0334	26.9033	26.8708		
Ca 370.602	73059	71628	72403		
Cd 226.502	-4.6345	-4.4162	-3.9596		
Co 228.615	240.935	250.712	240.103		
Cr 267.716	628.711	624.359	624.277		
Cu 324.754	167.217	168.881	172.996		
Fe 271.441	799243	798344	799142		
K 766.491	4701.75	4687.57	4722.16		
Mg 279.078	16999.9	16927.4	16957.5		
Mn 257.610	30127.0x	29928.8x	30005.6x		
Mo 202.032	14.4245	14.2685	13.7513		
Na 330.237	-1002.48u	-885.364u	-820.936u		
Ni 231.604	129.343	132.861	132.029		
Pb 220.353	530.285	518.963	517.990		
Sb 206.834	-32.9385u	-26.1970u	-29.8039u		
Se 196.026	26.3037	16.4249	15.4073		
Sn 189.925	33.3504	28.3713	32.5691		
Sr 216.596	124.070	121.676	122.102		
Ti 334.941	1509.48	1499.92	1497.90		
Tl 190.794	40.8828u	33.6890u	36.3836u		
V 292.401	1074.61	1070.77	1073.15		
Zn 206.200	1504.93	1496.03	1497.39		

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-2.7063b	ppb	0.6678	24.7	-225.544
Al 308.215	156441b	ppb	784.801	0.5	1331353
As 188.980	299.349b	ppb	4.5804	1.5	332.350
B 249.678	-22.0540b	ppb	1.4959	6.8	-2465.60
Ba 389.178	2906.19b	ppb	7.0723	0.2	96509.1
Be 313.042	26.9358b	ppb	0.0860	0.3	71381.5
Ca 370.602	72363b	ppb	716.1	1.0	382933
Cd 226.502	-4.3368b	ppb	0.3444	7.9	4470.92
Co 228.615	243.917b	ppb	5.8996	24	4774.06

E08192015.wvq. All Data Report 8/20/2015, 3:03:52 PM

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Cr 267.716	625.782b	ppb	2.5369	0.4	51189.3
Cu 324.754	169.698b	ppb	2.9748	1.8	12062.9
Fe 271.441	798910b	ppb	492.623	0.1	2157303
K 766.491	4703.82b	ppb	17.3879	0.4	291306
Mg 279.078	16961.6b	ppb	36.4423	0.2	87903.5
Mn 257.610	30020.5xb	ppb	99.9317	0.3	10181640
Mo 202.032	14.1481b	ppb	0.3524	2.5	104.493
Na 330.237	-902.927b	ppb	92.0385	10.2	-221.983
Ni 231.604	131.411b	ppb	1.8385	1.4	770.120
Pb 220.353	522.413b	ppb	6.8353	1.3	1901.00
Sb 206.834	-29.6465b	ppb	3.3735	11.4	-15.7849
Se 196.026	19.3786b	ppb	6.0188	31.1	10.8001
Sn 189.925	31.4303b	ppb	2.6778	8.5	20.6691
Sr 216.596	122.616b	ppb	1.2770	1.0	4997.71
Ti 334.941	1502.43b	ppb	6.1846	0.4	496656
Tl 190.794	36.9851b	ppb	3.6345	9.8	-75.9491
V 292.401	1072.84b	ppb	1.9397	0.2	41044.3
Zn 206.200	1499.45b	ppb	4.7941	0.3	4496.30

Cont Calib Verif (CCV)      8/20/2015, 12:47:09 AM      Rack 3, Tube 1  
 Weight: 1      Volume: 1      Dilution: 1

Label	Replicates	Concentration
Ag 328.068	496.128	504.161
Al 308.215	4726.48	4766.30
As 188.980	468.117	474.361
B 249.678	455.446	462.125
Ba 389.178	4797.88	4819.08
Be 313.042	474.969	478.128
Ca 370.602	5055	5079
Cd 226.502	476.082	479.419
Co 228.615	473.060	475.622
Cr 267.716	4896.35	4922.39
Cu 324.754	4991.57	5086.99
Fe 271.441	4698.57	4726.85
K 766.491	9444.10	9484.72
Mg 279.078	4689.06	4721.37
Mn 257.610	4782.20	4817.23
Mo 202.032	483.083	485.270
Na 330.237	6699.44	6681.58
Ni 231.604	2361.59	2374.42
Pb 220.353	476.522	482.556
Sb 206.834	960.863	963.828
Se 196.026	4649.13	4664.19
Sn 189.925	4721.46	4868.67
Sr 216.596	2377.29	2392.81
Ti 334.941	475.389	478.393
Tl 190.794	4802.69	4813.40
V 292.401	4743.31	4765.72
Zn 206.200	2381.89	2396.42

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)	QC Value
Ag 328.068	495.884	ppb	8.4008	1.7	47020.1	99.17686
Al 308.215	4746.59	ppb	19.9102	0.4	41720.0	94.93179

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Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)	QC Value
As 188.980	470.237	ppb	3.5719	0.8	543.451	94.04733
B 249.678	459.964	ppb	3.9141	0.9	8993.20	91.99286
Ba 389.178	4810.94	ppb	11.4243	0.2	158792	96.21874
Be 313.042	477.106	ppb	1.8511	0.4	1274649	95.42113
Ca 370.602	5072	ppb	14.67	0.3	28579	101.43262
Cd 226.502	477.761	ppb	1.6683	0.3	42282.5	95.55213
Co 228.615	474.355	ppb	1.2812	0.3	9304.83	94.87101
Cr 267.716	4906.75	ppb	13.7843	0.3	396919	98.13505
Cu 324.754	4995.53	ppb	89.5395	1.8	339774	99.91065
Fe 271.441	4711.42	ppb	14.3132	0.3	13053.1	94.22849
K 766.491	9473.26	ppb	25.4482	0.3	586139	94.73263
Mg 279.078	4706.29	ppb	16.2633	0.3	24638.7	94.12576
Mn 257.610	4802.51	ppb	18.1701	0.4	1628286	96.05019
Mo 202.032	484.330	ppb	1.1258	0.2	4408.78	96.86607
Na 330.237	6666.30	ppb	42.8693	0.6	734.368	88.88401Q
Ni 231.604	2368.10	ppb	6.4157	0.3	12692.2	94.72408
Pb 220.353	478.769	ppb	3.2985	0.7	1621.38	95.75379
Sb 206.834	961.495	ppb	2.0895	0.2	1708.08	96.14954
Se 196.026	4654.69	ppb	8.2723	0.2	3612.88	93.09375
Sn 189.925	4812.51	ppb	79.5649	1.7	7771.60	96.25011
Sr 216.596	2385.50	ppb	7.8000	0.3	55838.7	95.42004
Ti 334.941	476.987	ppb	1.5115	0.3	157642	95.39745
Tl 190.794	4814.28	ppb	12.0609	0.3	8892.82	96.28569
V 292.401	4752.31	ppb	11.8403	0.2	181597	95.04619
Zn 206.200	2391.39	ppb	8.2264	0.3	7137.73	95.65543

Cont Calib Blank (CCB) 8/20/2015, 12:51:46 AM

Weight: 1 Volume: 1

Rack 3, Tube 2

Dilution: 1

Label	Replicates	Concentration
Ag 328.068	0.0485	-0.2721u 0.5460
Al 308.215	-18.7579u	-21.4315u -15.6566u
As 188.980	1.4109	0.2121 2.8048
B 249.678	4.0582	2.4462 3.7682
Ba 389.178	0.2519	1.6522 1.5229
Be 313.042	0.0297	0.0248 0.0153
Ca 370.602	7.059	4.787 4.340
Cd 226.502	0.3807	0.3535 0.4884
Co 228.615	0.8111	0.1721 0.3889
Cr 267.716	-0.1011u	-0.1959u -0.3988u
Cu 324.754	1.0830	0.5688 0.1466
Fe 271.441	3.5837	-5.8383u 2.0706
K 766.491	-0.7838u	-0.1634u 0.3328
Mg 279.078	-0.7255u	-2.1684u -2.8817u
Mn 257.610	0.1216	0.1101 0.1299
Mo 202.032	0.4273	0.1110 -0.0315u
Na 330.237	-210.901u	-169.728u -92.8883u
Ni 231.604	1.6941	1.9604 1.5545
Pb 220.353	-0.8949u	-1.9212u 0.0596
Sb 206.834	-4.8889u	-0.9528u -4.8637u
Se 196.026	-1.5139u	5.2180 -5.7786u
Sn 189.925	-0.7982u	2.0078 0.6659
Sr 216.596	0.1129	0.2142 -0.1919u
Ti 334.941	0.0877	0.0005 0.0835

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Label	Replicates Concentration			
Tl 190.794	3.3367	-0.0423u	1.4481	
V 292.401	0.2093	0.1100	0.3820	
Zn 206.200	0.2346	0.0027	0.2842	

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)	QC Value
Ag 328.068	0.1075	ppb	0.4122	383.5	21.7088	0.10748
Al 308.215	-18.6153	ppb	2.8901	15.5	533.006	-18.61534
As 188.980	1.4760	ppb	1.2975	87.9	-10.8322	1.47595
B 249.678	3.4242	ppb	0.8593	25.1	161.699	3.42419
Ba 389.178	1.1423	ppb	0.7738	67.7	-174.987	1.14235
Be 313.042	0.0233	ppb	0.0073	31.5	-649.235	0.02328
Ca 370.602	5.395	ppb	1.458	27.0	-5.115	5.39541
Cd 226.502	0.4075	ppb	0.0713	17.5	127.018	0.40749
Co 228.615	0.4574	ppb	0.3250	71.1	-62.3550	0.45739
Cr 267.716	-0.2319	ppb	0.1521	65.6	24.6558	-0.23194
Cu 324.754	0.5995	ppb	0.4689	78.2	262.440	0.59948
Fe 271.441	-0.0613	ppb	5.0599	8254.2	155.144	-0.06130
K 766.491	-0.2048	ppb	0.5595	273.2	516.290	-0.20479
Mg 279.078	-1.9252	ppb	1.0985	57.1	99.6259	-1.92516
Mn 257.610	0.1205	ppb	0.0099	8.2	77.8294	0.12052
Mo 202.032	0.1690	ppb	0.2348	139.0	29.0581	0.16896
Na 330.237	-157.839	ppb	59.8979	37.9	169.517	-157.83907
Ni 231.604	1.7363	ppb	0.2062	11.9	-0.1742	1.73630
Pb 220.353	-0.9188	ppb	0.9906	107.8	59.5278	-0.91883
Sb 206.834	-3.5685	ppb	2.2653	63.5	34.1377	-3.56847
Se 196.026	-0.6915	ppb	5.5442	801.7	-10.4166	-0.69152
Sn 189.925	0.6252	ppb	1.4035	224.5	-29.2676	0.62517
Sr 216.596	0.0450	ppb	0.2114	469.3	59.8273	0.04504
Ti 334.941	0.0572	ppb	0.0491	85.9	23.9719	0.05725
Tl 190.794	1.5808	ppb	1.6934	107.1	-48.2857	1.58085
V 292.401	0.2338	ppb	0.1376	58.9	-19.7514	0.23380
Zn 206.200	0.1738	ppb	0.1503	86.5	2.1800	0.17380

680-115692-a-23-b (Samp)      8/20/2015, 12:56:22 AM      Rack 3, Tube 3  
 Weight: 1      Volume: 1      Dilution: 1

Label	Replicates Concentration			
Ag 328.068	-0.2985u	-0.1370u	-0.1065u	
Al 308.215	131194	131669	131045	
As 188.980	245.794	243.152	244.464	
B 249.678	-2.3902u	-3.0970u	-2.0448u	
Ba 389.178	734.144	733.155	734.190	
Be 313.042	4.9213	4.9291	4.9089	
Ca 370.602	79893	80121	79637	
Cd 226.502	-3.6055	-3.8934	-3.6221	
Co 228.615	62.8038	61.7030	63.1083	
Cr 267.716	766.728	767.523	763.505	
Cu 324.754	151.895	156.398	152.991	
Fe 271.441	521962	522366	520100	
K 766.491	4388.64	4406.50	4389.49	
Mg 279.078	16755.0	16771.4	16678.5	
Mn 257.610	13492.9	13328.3	13451.6	
Mo 202.032	15.3866	16.8536	17.3116	
Na 330.237	-882.052u	-485.576u	-537.549u	

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Label	Replicates Concentration			
Ni 231.604	54.7938	51.0586	49.7939	
Pb 220.353	398.085	397.651	399.207	
Sb 206.834	-22.1538u	-26.8210u	-14.2735u	
Se 196.026	9.7346	18.1557	8.1310	
Sn 189.925	29.1489	30.2356	26.9093	
Sr 216.596	116.407	116.350	115.553	
Ti 334.941	2650.31	2658.55	2648.71	
Tl 190.794	23.7808u	22.0050u	21.0515u	
V 292.401	973.310	972.334	968.435	
Zn 206.200	458.750	459.739	459.086	

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.1807	ppb	0.1032	57.1	-29.0922
Al 308.215	131303	ppb	325.763	0.2	1117519
As 188.980	244.470	ppb	1.3212	0.5	270.632
B 249.678	-2.5106	ppb	0.5363	21.4	-1345.95
Ba 389.178	733.830	ppb	0.5847	0.1	24500.9
Be 313.042	4.9197	ppb	0.0102	0.2	12548.0
Ca 370.602	79883	ppb	242.0	0.3	431362
Cd 226.502	-3.7070	ppb	0.1616	4.4	2864.70
Co 228.615	62.5384	ppb	0.7393	1.2	1242.84
Cr 267.716	765.919	ppb	2.1275	0.3	62299.6
Cu 324.754	153.761	ppb	2.3483	1.5	10870.0
Fe 271.441	521476	ppb	1208.72	0.2	1408189
K 766.491	4394.88	ppb	10.0722	0.2	272208
Mg 279.078	16735.0	ppb	49.6133	0.3	87394.9
Mn 257.610	13424.2	ppb	85.6475	0.6	4553816
Mo 202.032	16.5173	ppb	1.0056	6.1	143.364
Na 330.237	-635.059	ppb	215.475	33.9	-84.6682
Ni 231.604	51.8821	ppb	2.5997	5.0	317.980
Pb 220.353	398.314	ppb	0.8027	0.2	1443.80
Sb 206.834	-21.0828	ppb	6.3420	30.1	6.4115
Se 196.026	12.0071	ppb	5.3849	44.8	0.7164
Sn 189.925	28.7646	ppb	1.6961	5.9	16.3489
Sr 216.596	116.103	ppb	0.4773	0.4	4129.15
Ti 334.941	2652.53	ppb	5.2770	0.2	876682
Tl 190.794	22.2791	ppb	1.3851	6.2	-75.8342
V 292.401	971.360	ppb	2.5793	0.3	37159.1
Zn 206.200	459.192	ppb	0.5027	0.1	1373.36

680-115692-a-27-b (Samp)      8/20/2015, 1:00:58 AM      Rack 3, Tube 4  
 Weight: 1      Volume: 1      Dilution: 1

Label	Replicates Concentration			
Ag 328.068	-2.9025u	-1.9659u	-1.3168u	
Al 308.215	133502	133077	132772	
As 188.980	246.890	238.431	237.230	
B 249.678	-15.9897u	-15.7805u	-17.6145u	
Ba 389.178	1228.72	1227.19	1223.96	
Be 313.042	13.0105	12.9837	12.9939	
Ca 370.602	41480	41253	41340	
Cd 226.502	-3.5935	-3.6972	-3.9265	
Co 228.615	168.332	165.725	168.047	
Cr 267.716	550.659	548.875	549.145	

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Label	Replicates	Concentration				
Cu 324.754	135.599	143.443	142.961			
Fe 271.441	570731	569693	570432			
K 766.491	2910.26	2906.26	2904.87			
Mg 279.078	14902.6	14802.3	14767.5			
Mn 257.610	14032.4	14475.6	14377.4			
Mo 202.032	12.8623	12.5474	12.4797			
Na 330.237	-695.615u	-660.597u	-874.203u			
Ni 231.604	91.4916	91.3013	92.1119			
Pb 220.353	735.063	733.219	729.248			
Sb 206.834	-10.2727u	-26.5810u	-14.8567u			
Se 196.026	21.8055	25.8006	16.4863			
Sn 189.925	31.3439	33.4566	31.6905			
Sr 216.596	51.9994	52.1339	52.7855			
Ti 334.941	1058.44	1055.94	1055.46			
Tl 190.794	20.2484u	26.5419u	29.5098u			
V 292.401	847.692	845.633	845.259			
Zn 206.200	1983.07	1976.81	1967.08			

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-2.0617	ppb	0.7971	38.7	-209.706
Al 308.215	133117	ppb	366.767	0.3	1132935
As 188.980	240.850	ppb	5.2647	2.2	265.786
B 249.678	-16.4615	ppb	1.0039	6.1	-1746.01
Ba 389.178	1226.62	ppb	2.4284	0.2	40819.1
Be 313.042	12.9960	ppb	0.0135	0.1	34103.2
Ca 370.602	41358	ppb	114.6	0.3	216112
Cd 226.502	-3.7390	ppb	0.1704	4.6	3159.73
Co 228.615	167.368	ppb	1.4297	0.9	3253.67
Cr 267.716	549.560	ppb	0.9613	0.2	44820.1
Cu 324.754	140.667	ppb	4.3963	3.1	10001.0
Fe 271.441	570285	ppb	534.230	0.1	1539991
K 766.491	2907.13	ppb	2.7966	0.1	180240
Mg 279.078	14824.1	ppb	70.1621	0.5	77320.3
Mn 257.610	14295.1	ppb	232.748	1.6	4849263
Mo 202.032	12.6298	ppb	0.2042	1.6	105.292
Na 330.237	-743.471	ppb	114.563	15.4	-115.541
Ni 231.604	91.6349	ppb	0.4239	0.5	535.405
Pb 220.353	732.510	ppb	2.9716	0.4	2539.25
Sb 206.834	-17.2368	ppb	8.4106	48.8	8.3125
Se 196.026	21.3641	ppb	4.6728	21.9	7.9614
Sn 189.925	32.1637	ppb	1.1330	3.5	21.8590
Sr 216.596	52.3062	ppb	0.4204	0.8	2758.60
Ti 334.941	1056.61	ppb	1.6021	0.2	349292
Tl 190.794	25.4334	ppb	4.7291	18.6	-76.6255
V 292.401	846.194	ppb	1.3099	0.2	32361.9
Zn 206.200	1975.65	ppb	8.0535	0.4	5926.06

680-115692-a-39-b (Samp)      8/20/2015, 1:05:35 AM      Rack 3, Tube 5  
 Weight: 1      Volume: 1      Dilution: 1

Label	Replicates	Concentration				
Ag 328.068	-2.7533u	-3.9593u	-1.6168u			
Al 308.215	104827	103851	103911			
As 188.980	151.652	151.262	152.914			

<b>Label</b>	<b>Replicates Concentration</b>			
B 249.678	-11.0764u	-10.7300u	-9.0284u	
Ba 389.178	1443.20	1429.54	1429.79	
Be 313.042	14.0546	13.9366	13.9638	
Ca 370.602	53397	52835	53016	
Cd 226.502	-2.4329	-2.6292	-2.5458	
Co 228.615	120.968	119.087	123.245	
Cr 267.716	309.799	307.219	308.183	
Cu 324.754	67.9672	64.4782	65.3341	
Fe 271.441	441441	437232	438228	
K 766.491	3043.24	3000.99	3001.89	
Mg 279.078	20244.3	20086.5	20119.4	
Mn 257.610	12233.4	12127.8	12168.7	
Mo 202.032	6.0546	4.9881	6.0653	
Na 330.237	-619.566u	-619.552u	-666.878u	
Ni 231.604	70.5055	65.6792	68.5115	
Pb 220.353	351.088	351.432	348.865	
Sb 206.834	-13.5985u	-20.0155u	-15.4353u	
Se 196.026	12.9245	12.9746	15.4376	
Sn 189.925	23.6209	24.0336	19.4024	
Sr 216.596	79.4272	78.6619	78.4786	
Ti 334.941	628.179	622.161	622.438	
Tl 190.794	20.7936u	19.3838u	19.7889u	
V 292.401	656.497	651.147	652.080	
Zn 206.200	474.144	471.015	473.601	

<b>Label</b>	<b>Sol'n Conc.</b>	<b>Units</b>	<b>SD</b>	<b>%RSD</b>	<b>Int. (c/s)</b>
Ag 328.068	-2.7765	ppb	1.1714	42.2	-266.483
Al 308.215	104196	ppb	546.934	0.5	886945
As 188.980	151.943	ppb	0.8635	0.6	162.112
B 249.678	-10.2783	ppb	1.0962	10.7	-1276.23
Ba 389.178	1434.18	ppb	7.8122	0.5	47583.4
Be 313.042	13.9850	ppb	0.0618	0.4	36737.6
Ca 370.602	53082	ppb	286.6	0.5	283571
Cd 226.502	-2.5360	ppb	0.0985	3.9	2485.47
Co 228.615	121.100	ppb	2.0821	1.7	2328.26
Cr 267.716	308.400	ppb	1.3036	0.4	25246.2
Cu 324.754	65.9265	ppb	1.8184	2.8	4870.07
Fe 271.441	438967	ppb	2199.76	0.5	1185414
K 766.491	3015.37	ppb	24.1398	0.8	186931
Mg 279.078	20150.0	ppb	83.2294	0.4	105405
Mn 257.610	12176.6	ppb	53.2810	0.4	4130497
Mo 202.032	5.7027	ppb	0.6188	10.9	50.9563
Na 330.237	-635.332	ppb	27.3195	4.3	-50.8162
Ni 231.604	68.2321	ppb	2.4253	3.6	397.636
Pb 220.353	350.462	ppb	1.3934	0.4	1276.53
Sb 206.834	-16.3497	ppb	3.3048	20.2	8.7213
Se 196.026	13.7789	ppb	1.4367	10.4	2.2381
Sn 189.925	22.3523	ppb	2.5630	11.5	5.9537
Sr 216.596	78.8559	ppb	0.5032	0.6	3041.90
Ti 334.941	624.259	ppb	3.3971	0.5	206406
Tl 190.794	19.9888	ppb	0.7258	3.6	-69.0427
V 292.401	653.241	ppb	2.8576	0.4	24982.5
Zn 206.200	472.920	ppb	1.6720	0.4	1418.33

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680-115692-a-30-b (Samp)		8/20/2015, 1:10:11 AM		Rack 3, Tube 6	
Weight: 1		Volume: 1		Dilution: 1	
Label	Replicates	Concentration			
Ag 328.068	-0.5417u	-1.2446u	-1.3105u		
Al 308.215	104035	104296	104949		
As 188.980	65.7677	69.5110	66.6860		
B 249.678	-2.6157u	-2.9691u	-2.4786u		
Ba 389.178	292.859	295.406	297.636		
Be 313.042	10.8920	10.9198	11.0310		
Ca 370.602	22963	23004	23279		
Cd 226.502	-1.3075	-1.0124	-1.0651		
Co 228.615	38.0325	40.0952	39.0091		
Cr 267.716	251.309	251.404	253.570		
Cu 324.754	34.5584	33.9002	36.5309		
Fe 271.441	191465	192508	194409		
K 766.491	3020.38	3047.29	3063.60		
Mg 279.078	14545.4	14511.4	14589.0		
Mn 257.610	1095.41	1095.24	1106.96		
Mo 202.032	2.2738	1.8117	1.7815		
Na 330.237	-164.595u	-278.983u	-290.263u		
Ni 231.604	55.2748	56.2482	55.5719		
Pb 220.353	209.367	204.027	205.491		
Sb 206.834	-8.9503u	-14.5084u	-7.7014u		
Se 196.026	-4.2207u	9.3302	6.3322		
Sn 189.925	20.6967	19.0195	17.4306		
Sr 216.596	48.4294	47.9527	49.3702		
Ti 334.941	219.659	220.419	221.879		
Tl 190.794	12.8520u	11.9760u	8.1109u		
V 292.401	316.007	317.791	320.454		
Zn 206.200	281.402	279.651	282.884		

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-1.0323	ppb	0.4261	41.3	-117.641
Al 308.215	104427	ppb	470.642	0.5	888826
As 188.980	67.3216	ppb	1.9509	2.9	64.8419
B 249.678	-2.6878	ppb	0.2531	9.4	-471.665
Ba 389.178	295.300	ppb	2.3902	0.8	9737.04
Be 313.042	10.9476	ppb	0.0736	0.7	28590.5
Ca 370.602	23082	ppb	172.1	0.7	122991
Cd 226.502	-1.1283	ppb	0.1574	13.9	1141.86
Co 228.615	39.0456	ppb	1.0318	2.6	701.627
Cr 267.716	252.094	ppb	1.2788	0.5	20517.5
Cu 324.754	34.9965	ppb	1.3690	3.9	2673.52
Fe 271.441	192794	ppb	1492.63	0.8	520719
K 766.491	3043.76	ppb	21.8279	0.7	188685
Mg 279.078	14548.6	ppb	38.8748	0.3	76421.1
Mn 257.610	1099.21	ppb	6.7203	0.6	373766
Mo 202.032	1.9557	ppb	0.2759	14.1	32.7982
Na 330.237	-244.613	ppb	69.5276	28.4	82.9200
Ni 231.604	55.6983	ppb	0.4989	0.9	307.455
Pb 220.353	206.295	ppb	2.7590	1.3	762.500
Sb 206.834	-10.3867	ppb	3.6237	34.9	22.9005
Se 196.026	3.8139	ppb	7.1178	186.6	-7.9528
Sn 189.925	19.0490	ppb	1.6333	8.6	0.5997
Sr 216.596	48.5841	ppb	0.7213	1694.56	Page 705 of 895

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Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ti 334.941	220.652	ppb	1.1285	0.5	72983.8
Tl 190.794	10.9796	ppb	2.5227	23.0	-58.6235
V 292.401	318.084	ppb	2.2381	0.7	12142.6
Zn 206.200	281.312	ppb	1.6183	0.6	843.794

680-115692-a-34-b (Samp)      8/20/2015, 1:14:48 AM      Rack 3, Tube 7  
 Weight: 1      Volume: 1      Dilution: 1

Label	Replicates	Concentration				
Ag 328.068	-2.8124u	-2.5447u	-2.7369u			
Al 308.215	144385	144603	145550			
As 188.980	128.097	123.685	123.913			
B 249.678	-11.8389u	-11.0614u	-11.1367u			
Ba 389.178	1530.72	1531.59	1547.05			
Be 313.042	18.8558	18.8677	19.0102			
Ca 370.602	30502	30594	30850			
Cd 226.502	-2.8570	-2.9716	-2.6443			
Co 228.615	151.451	152.042	152.448			
Cr 267.716	293.624	294.409	295.528			
Cu 324.754	40.9090	41.7100	37.7445			
Fe 271.441	342853	343049	344869			
K 766.491	2578.47	2576.29	2588.23			
Mg 279.078	21346.0	21400.8	21469.7			
Mn 257.610	9614.39	9639.99	9675.72			
Mo 202.032	3.0746	3.1731	4.1670			
Na 330.237	-242.140u	-126.323u	-135.592u			
Ni 231.604	79.5766	81.3649	79.8118			
Pb 220.353	202.761	207.295	213.838			
Sb 206.834	-16.7387u	-6.6966u	-14.7310u			
Se 196.026	10.0693	9.6969	8.5340			
Sn 189.925	18.4127	15.7666	17.8555			
Sr 216.596	56.8095	57.2369	56.8857			
Ti 334.941	157.137	156.410	158.220			
Tl 190.794	20.0654u	20.6090u	16.8144u			
V 292.401	523.247	522.929	525.662			
Zn 206.200	270.204	268.973	271.334			

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-2.6980	ppb	0.1380	5.1	-254.709
Al 308.215	144846	ppb	619.687	0.4	1232608
As 188.980	125.232	ppb	2.4839	2.0	131.615
B 249.678	-11.3457	ppb	0.4288	3.8	-1041.73
Ba 389.178	1536.45	ppb	9.1916	0.6	50888.2
Be 313.042	18.9112	ppb	0.0859	0.5	49891.0
Ca 370.602	30649	ppb	180.6	0.6	161484
Cd 226.502	-2.8243	ppb	0.1660	5.9	1892.11
Co 228.615	151.980	ppb	0.5016	0.3	2925.18
Cr 267.716	294.521	ppb	0.9571	0.3	24068.4
Cu 324.754	40.1212	ppb	2.0968	5.2	3079.35
Fe 271.441	343590	ppb	1111.58	0.3	927897
K 766.491	2580.99	ppb	6.3576	0.2	160079
Mg 279.078	21405.5	ppb	62.0127	0.3	112073
Mn 257.610	9643.37	ppb	30.8066	0.3	3271232
Mo 202.032	3.4716	ppb	0.6043	174	368660

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Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Na 330.237	-168.019	ppb	64.3583	38.3	27.6262
Ni 231.604	80.2511	ppb	0.9717	1.2	452.971
Pb 220.353	207.965	ppb	5.5687	2.7	795.836
Sb 206.834	-12.7221	ppb	5.3139	41.8	16.5451
Se 196.026	9.4334	ppb	0.8009	8.5	-1.4036
Sn 189.925	17.3450	ppb	1.3950	8.0	-2.1634
Sr 216.596	56.9774	ppb	0.2280	0.4	2280.91
Ti 334.941	157.256	ppb	0.9104	0.6	52069.4
Tl 190.794	19.1630	ppb	2.0519	10.7	-58.2355
V 292.401	523.946	ppb	1.4947	0.3	20025.3
Zn 206.200	270.170	ppb	1.1810	0.4	810.002

680-115692-a-29-b (Samp)

8/20/2015, 1:19:24 AM

Rack 3, Tube 8

Weight: 1

Volume: 1

Dilution: 1

Label	Replicates	Concentration				
Ag 328.068	-1.6107u	-1.5012u	-1.3347u			
Al 308.215	128912	127968	127607			
As 188.980	119.712	114.762	112.964			
B 249.678	-8.7452u	-8.0523u	-7.4479u			
Ba 389.178	492.986	491.635	489.186			
Be 313.042	8.5287	8.4653	8.4422			
Ca 370.602	23853	23768	23707			
Cd 226.502	-2.1307	-2.0891	-2.2961			
Co 228.615	73.6962	72.1290	73.5333			
Cr 267.716	383.809	380.799	380.146			
Cu 324.754	79.4051	77.0670	77.9001			
Fe 271.441	310103	307884	306802			
K 766.491	3270.79	3255.80	3240.75			
Mg 279.078	11254.3	11196.3	11169.1			
Mn 257.610	6672.55	6645.57	6645.90			
Mo 202.032	6.8422	7.1840	6.6338			
Na 330.237	-398.469u	-453.967u	-455.600u			
Ni 231.604	63.3880	66.0574	63.1193			
Pb 220.353	264.861	264.573	264.553			
Sb 206.834	-14.2804u	-18.4425u	-11.6182u			
Se 196.026	18.5599	9.7587	1.9957			
Sn 189.925	31.0708	26.8390	30.2745			
Sr 216.596	48.1523	47.9337	47.2262			
Ti 334.941	681.630	676.576	672.060			
Tl 190.794	13.3604u	13.0091u	11.9083u			
V 292.401	525.128	522.484	520.500			
Zn 206.200	384.674	385.905	385.175			

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-1.4822	ppb	0.1390	9.4	-149.438
Al 308.215	128162	ppb	673.986	0.5	1090722
As 188.980	115.813	ppb	3.4950	3.0	120.876
B 249.678	-8.0818	ppb	0.6491	8.0	-884.478
Ba 389.178	491.269	ppb	1.9265	0.4	16298.6
Be 313.042	8.4787	ppb	0.0448	0.5	22006.4
Ca 370.602	23776	ppb	73.41	0.3	124681
Cd 226.502	-2.1720	ppb	0.1095	5.0	1736.89
Co 228.615	73.1195	ppb	0.8617	2	1387.29

E08192015.wvq. All Data Report 8/20/2015, 3:03:52 PM

<b>Label</b>	<b>Sol'n Conc.</b>	<b>Units</b>	<b>SD</b>	<b>%RSD</b>	<b>Int. (c/s)</b>
Cr 267.716	381.585	ppb	1.9538	0.5	31077.0
Cu 324.754	78.1241	ppb	1.1850	1.5	5648.86
Fe 271.441	308263	ppb	1682.66	0.5	832498
K 766.491	3255.78	ppb	15.0204	0.5	201792
Mg 279.078	11206.6	ppb	43.5233	0.4	58624.4
Mn 257.610	6654.67	ppb	15.4846	0.2	2257705
Mo 202.032	6.8867	ppb	0.2778	4.0	70.0007
Na 330.237	-436.012	ppb	32.5237	7.5	19.4722
Ni 231.604	64.1882	ppb	1.6243	2.5	363.794
Pb 220.353	264.662	ppb	0.1723	0.1	972.809
Sb 206.834	-14.7804	ppb	3.4395	23.3	15.2207
Se 196.026	10.1048	ppb	8.2875	82.0	-1.7753
Sn 189.925	29.3948	ppb	2.2489	7.7	17.3714
Sr 216.596	47.7707	ppb	0.4841	1.0	1974.61
Ti 334.941	676.755	ppb	4.7873	0.7	223720
Tl 190.794	12.7593	ppb	0.7576	5.9	-67.6281
V 292.401	522.704	ppb	2.3220	0.4	19976.7
Zn 206.200	385.251	ppb	0.6191	0.2	1154.64

680-115692-a-33-b (Samp)

8/20/2015, 1:24:00 AM

Rack 3, Tube 9

Weight: 1

Volume: 1

Dilution: 1

<b>Label</b>	<b>Replicates</b>	<b>Concentration</b>
Ag 328.068	-3.9571u	-3.9374u
Al 308.215	122806	122915
As 188.980	225.921	221.732
B 249.678	-8.2498u	-8.8918u
Ba 389.178	1341.75	1347.64
Be 313.042	18.7076	18.7379
Ca 370.602	30975	31096
Cd 226.502	-1.8059	-1.9017
Co 228.615	138.360	134.213
Cr 267.716	321.086	322.227
Cu 324.754	97.8595	95.9949
Fe 271.441	381179	381984
K 766.491	2964.42	2958.29
Mg 279.078	18533.0	18539.2
Mn 257.610	7875.42	7892.56
Mo 202.032	9.4879	10.5652
Na 330.237	-374.951u	-269.147u
Ni 231.604	84.7348	87.7250
Pb 220.353	455.917	447.878
Sb 206.834	-20.2038u	-12.4121u
Se 196.026	22.4530	11.7598
Sn 189.925	24.0277	25.8797
Sr 216.596	79.8261	79.7150
Ti 334.941	317.191	320.618
Tl 190.794	20.5277u	20.4903u
V 292.401	616.361	617.906
Zn 206.200	705.536	699.837

<b>Label</b>	<b>Sol'n Conc.</b>	<b>Units</b>	<b>SD</b>	<b>%RSD</b>	<b>Int. (c/s)</b>
Ag 328.068	-4.4496	ppb	0.8702	19.6	-439.148
Al 308.215	123119	ppb	450.828	0.4	1047856

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Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
As 188.980	224.579	ppb	2.4668	1.1	248.712
B 249.678	-8.4384	ppb	0.3945	4.7	-1089.16
Ba 389.178	1348.46	ppb	7.1659	0.5	44701.4
Be 313.042	18.7795	ppb	0.0995	0.5	49542.6
Ca 370.602	31150	ppb	206.9	0.7	163361
Cd 226.502	-1.7716	ppb	0.1502	8.5	2215.77
Co 228.615	137.322	ppb	2.7411	2.0	2639.72
Cr 267.716	322.510	ppb	1.5845	0.5	26333.8
Cu 324.754	95.2212	ppb	3.0984	3.3	6839.51
Fe 271.441	382416	ppb	1500.14	0.4	1032726
K 766.491	2963.01	ppb	4.1946	0.1	183694
Mg 279.078	18560.1	ppb	41.7880	0.2	97210.3
Mn 257.610	7902.25	ppb	32.7753	0.4	2681098
Mo 202.032	9.6960	ppb	0.7862	8.1	90.7169
Na 330.237	-311.849	ppb	55.7739	17.9	-0.8539
Ni 231.604	86.4177	ppb	1.5301	1.8	489.770
Pb 220.353	452.402	ppb	4.1136	0.9	1596.01
Sb 206.834	-16.4450	ppb	3.9031	23.7	9.9057
Se 196.026	19.3012	ppb	6.5603	34.0	5.2990
Sn 189.925	25.2426	ppb	1.0526	4.2	10.6398
Sr 216.596	79.8502	ppb	0.1488	0.2	2917.13
Ti 334.941	319.726	ppb	2.2267	0.7	105758
Tl 190.794	19.7447	ppb	1.3239	6.7	-64.4771
V 292.401	617.217	ppb	0.7855	0.1	23597.0
Zn 206.200	702.668	ppb	2.8497	0.4	2107.70

680-115692-a-22-b (Samp)      8/20/2015, 1:28:37 AM      Rack 3, Tube 10  
 Weight: 1      Volume: 1      Dilution: 1

Label	Replicates	Concentration
Ag 328.068	-3.4080u	-2.2027u
Al 308.215	170939	169729
As 188.980	74.0240	70.6224
B 249.678	-0.2657u	1.7926u
Ba 389.178	1105.71	1097.73
Be 313.042	10.7837	10.7028
Ca 370.602	33343	33118
Cd 226.502	-0.4804	-0.6650
Co 228.615	86.0472	85.8681
Cr 267.716	309.129	306.744
Cu 324.754	85.8960	86.2328
Fe 271.441	217661	216834
K 766.491	5417.01	5386.72
Mg 279.078	14425.4	14451.2
Mn 257.610	11972.7	11895.1
Mo 202.032	6.3994	6.3484
Na 330.237	-280.785u	-289.143u
Ni 231.604	79.1147	80.2677
Pb 220.353	418.751	419.590
Sb 206.834	-14.1194u	-14.1880u
Se 196.026	10.4879	14.8295
Sn 189.925	19.3442	23.0041
Sr 216.596	159.588	159.012
Ti 334.941	479.741	477.694

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Label	Replicates Concentration			
Tl 190.794	13.9710	14.9466	13.2081	
V 292.401	403.823	400.702	400.570	
Zn 206.200	496.574	492.517	496.245	

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-2.6839	ppb	0.6383	23.8	-219.920
Al 308.215	169916	ppb	943.687	0.6	1445777
As 188.980	72.3272	ppb	1.7008	2.4	70.4843
B 249.678	0.8906	ppb	1.0525	118.2	-466.442
Ba 389.178	1100.37	ppb	4.6211	0.4	36358.9
Be 313.042	10.7241	ppb	0.0524	0.5	28007.0
Ca 370.602	33187	ppb	135.7	0.4	178959
Cd 226.502	-0.5613	ppb	0.0944	16.8	1333.72
Co 228.615	85.4092	ppb	0.9541	1.1	1626.13
Cr 267.716	307.469	ppb	1.4417	0.5	25085.6
Cu 324.754	86.2078	ppb	0.3001	0.3	6163.46
Fe 271.441	216808	ppb	865.907	0.4	585568
K 766.491	5392.61	ppb	22.0616	0.4	333885
Mg 279.078	14427.5	ppb	22.6595	0.2	75306.0
Mn 257.610	11901.6	ppb	68.1207	0.6	4036149
Mo 202.032	6.4403	ppb	0.1178	1.8	71.8221
Na 330.237	-238.344	ppb	80.8569	33.9	73.3337
Ni 231.604	79.4374	ppb	0.7249	0.9	436.915
Pb 220.353	418.844	ppb	0.7045	0.2	1459.31
Sb 206.834	-13.8810	ppb	0.4736	3.4	17.4298
Se 196.026	13.3637	ppb	2.4907	18.6	3.4985
Sn 189.925	20.9369	ppb	1.8755	9.0	3.6602
Sr 216.596	159.180	ppb	0.3553	0.2	4346.97
Ti 334.941	477.189	ppb	2.8391	0.6	157767
Tl 190.794	14.0419	ppb	0.8714	6.2	-46.8619
V 292.401	401.698	ppb	1.8415	0.5	15343.2
Zn 206.200	495.112	ppb	2.2533	0.5	1484.95

680-115692-a-31-b (Samp)      8/20/2015, 1:33:14 AM      Rack 3, Tube 11  
 Weight: 1      Volume: 1      Dilution: 1

Label	Replicates Concentration			
Ag 328.068	-1.2984u	-0.3018u	-0.8494u	
Al 308.215	95384.8	95646.8	95119.3	
As 188.980	58.8788	61.3155	60.0534	
B 249.678	-5.6827u	-5.7789u	-6.3961u	
Ba 389.178	155.130	156.233	155.281	
Be 313.042	11.6210	11.6607	11.6328	
Ca 370.602	21478	21550	21510	
Cd 226.502	-1.9664	-1.5351	-1.6966	
Co 228.615	33.6502	34.1872	32.8881	
Cr 267.716	289.785	290.418	290.352	
Cu 324.754	21.1325	20.9060	21.5099	
Fe 271.441	210423	210984	210356	
K 766.491	2590.37	2595.41	2585.29	
Mg 279.078	13409.8	13483.2	13414.1	
Mn 257.610	909.936	909.432	909.796	
Mo 202.032	1.6125	2.6826	1.7366	
Na 330.237	-165.177u	-43.4768u	-166.331u	

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Label	Replicates	Concentration
Ni 231.604	50.2222	52.6602
Pb 220.353	120.334	120.840
Sb 206.834	-11.3876u	-12.9691u
Se 196.026	6.1304	14.1769
Sn 189.925	18.1100	14.0916
Sr 216.596	39.4197	39.0761
Ti 334.941	146.494	145.711
Tl 190.794	11.4254u	9.1637u
V 292.401	332.613	334.192
Zn 206.200	179.782	181.069

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.8165	ppb	0.4991	61.1	-101.308
Al 308.215	95383.6	ppb	263.764	0.3	811927
As 188.980	60.0826	ppb	1.2186	2.0	56.0702
B 249.678	-5.9526	ppb	0.3871	6.5	-582.293
Ba 389.178	155.548	ppb	0.5977	0.4	5130.97
Be 313.042	11.6381	ppb	0.0204	0.2	30435.2
Ca 370.602	21513	ppb	36.32	0.2	113819
Cd 226.502	-1.7327	ppb	0.2179	12.6	1195.03
Co 228.615	33.5752	ppb	0.6528	1.9	590.308
Cr 267.716	290.185	ppb	0.3479	0.1	23603.9
Cu 324.754	21.1828	ppb	0.3051	1.4	1741.37
Fe 271.441	210588	ppb	344.608	0.2	568762
K 766.491	2590.36	ppb	5.0585	0.2	160657
Mg 279.078	13435.7	ppb	41.1503	0.3	70588.5
Mn 257.610	909.722	ppb	0.2600	0.0	309596
Mo 202.032	2.0106	ppb	0.5853	29.1	32.1674
Na 330.237	-124.995	ppb	70.5989	56.5	85.7602
Ni 231.604	52.0812	ppb	1.6476	3.2	289.753
Pb 220.353	121.351	ppb	1.3465	1.1	489.894
Sb 206.834	-11.9433	ppb	0.8894	7.4	20.5810
Se 196.026	7.8879	ppb	5.6203	71.3	-4.9929
Sn 189.925	16.9465	ppb	2.4865	14.7	-2.8088
Sr 216.596	38.9999	ppb	0.4625	1.2	1516.39
Ti 334.941	145.894	ppb	0.5322	0.4	48278.4
Tl 190.794	10.8459	ppb	1.4801	13.6	-61.7690
V 292.401	333.099	ppb	0.9481	0.3	12714.7
Zn 206.200	181.496	ppb	1.9627	1.1	543.922

680-115692-a-25-b (Samp)      8/20/2015, 1:37:50 AM      Rack 3, Tube 12  
 Weight: 1      Volume: 1      Dilution: 1

Label	Replicates	Concentration
Ag 328.068	-4.6511u	-4.4508
Al 308.215	151619	151692
As 188.980	280.039	284.038
B 249.678	-17.7376u	-17.4147u
Ba 389.178	7770.02	7759.01
Be 313.042	22.0790	22.0500
Ca 370.602	125807	125502
Cd 226.502	-1.2133	-1.1202
Co 228.615	458.004	426.063
Cr 267.716	535.047	535.088

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Label	Replicates	Concentration	
Cu 324.754	166.102	164.661	155.876
Fe 271.441	719626	717463	720479
K 766.491	6125.98	6145.48	6135.18
Mg 279.078	17505.2	17457.9	17492.1
Mn 257.610	101978o	102050o	101990o
Mo 202.032	11.4830	11.2327	11.6719
Na 330.237	-905.790u	-897.955u	-1161.92u
Ni 231.604	156.817	151.729	150.237
Pb 220.353	757.455	762.867	754.774
Sb 206.834	-37.9570u	-37.9974u	-36.3845u
Se 196.026	50.6583	50.5940	48.0910
Sn 189.925	32.9247	31.2533	32.6614
Sr 216.596	296.451	295.302	295.676
Ti 334.941	2826.04	2822.02	2827.61
Tl 190.794	67.0164	62.3077	62.2568
V 292.401	1130.11	1127.90	1131.08
Zn 206.200	1088.74	1082.28	1084.29

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-4.4091b	ppb	0.2654	6.0	32.0017
Al 308.215	151587b	ppb	123.302	0.1	1290069
As 188.980	280.520b	ppb	3.3038	1.2	311.001
B 249.678	-17.8350b	ppb	0.4766	2.7	-2170.06
Ba 389.178	7770.70b	ppb	12.0492	0.2	257186
Be 313.042	22.0794b	ppb	0.0296	0.1	58402.9
Ca 370.602	125726b	ppb	196.8	0.2	684163
Cd 226.502	-1.1372b	ppb	0.0692	6.1	4269.58
Co 228.615	440.938b	ppb	16.0823	3.6	8717.87
Cr 267.716	535.123b	ppb	0.0989	0.0	44343.1
Cu 324.754	162.213b	ppb	5.5346	3.4	11521.1
Fe 271.441	719190b	ppb	1554.96	0.2	1942090
K 766.491	6135.55b	ppb	9.7559	0.2	379811
Mg 279.078	17485.1b	ppb	24.4434	0.1	87827.5
Mn 257.610	102006oxb	ppb	38.3429	0.0	34586140
Mo 202.032	11.4625b	ppb	0.2203	1.9	85.0543
Na 330.237	-988.556b	ppb	150.192	15.2	-195.907
Ni 231.604	152.928b	ppb	3.4501	2.3	877.106
Pb 220.353	758.365b	ppb	4.1230	0.5	2682.34
Sb 206.834	-37.4463b	ppb	0.9198	2.5	-28.5351
Se 196.026	49.7811b	ppb	1.4640	2.9	62.6253
Sn 189.925	32.2798b	ppb	0.8987	2.8	22.0466
Sr 216.596	295.810b	ppb	0.5860	0.2	8846.98
Ti 334.941	2825.22b	ppb	2.8837	0.1	933780
Tl 190.794	63.8603b	ppb	2.7334	4.3	48.5799
V 292.401	1129.70b	ppb	1.6278	0.1	43242.7
Zn 206.200	1085.10b	ppb	3.3076	0.3	3253.63

Cont Calib Verif (CCV)      8/20/2015, 1:42:26 AM      Rack 3, Tube 13  
 Weight: 1      Volume: 1      Dilution: 1

Label	Replicates	Concentration	
Ag 328.068	504.222	472.778	488.415
Al 308.215	4766.74	4820.90	4730.85
As 188.980	482.459	479.271	471.695

Label	Replicates	Concentration					
B 249.678	462.985	467.999	460.906				
Ba 389.178	4838.66	4902.66	4800.02				
Be 313.042	480.427	485.774	476.512				
Ca 370.602	5104	5187	5074				
Cd 226.502	481.228	485.855	478.428				
Co 228.615	478.447	484.108	473.995				
Cr 267.716	4926.87	4972.94	4908.14				
Cu 324.754	5082.07	4879.95	4940.01				
Fe 271.441	4730.13	4794.87	4696.30				
K 766.491	9558.23	9597.55	9455.75				
Mg 279.078	4737.01	4775.89	4694.44				
Mn 257.610	4822.83	4885.49	4794.30				
Mo 202.032	485.461	494.358	484.031				
Na 330.237	6554.54	6939.00	6573.94				
Ni 231.604	2382.35	2406.25	2370.74				
Pb 220.353	479.689	486.446	475.656				
Sb 206.834	974.598	980.831	959.456				
Se 196.026	4695.04	4696.99	4645.80				
Sn 189.925	4789.88	4725.54	4841.70				
Sr 216.596	2399.98	2426.71	2384.21				
Ti 334.941	479.135	484.382	476.461				
Tl 190.794	4848.50	4902.75	4816.73				
V 292.401	4774.38	4837.26	4748.92				
Zn 206.200	2408.88	2424.30	2385.92				

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)	QC Value	
Ag 328.068	488.472	ppb	15.7218	3.2	46316.3	97.69433	
Al 308.215	4772.83	ppb	45.3345	0.9	41947.9	95.45654	
As 188.980	477.808	ppb	5.5292	1.2	552.408	95.56168	
B 249.678	463.963	ppb	3.6462	0.8	9070.61	92.79268	
Ba 389.178	4847.11	ppb	51.8424	1.1	159988	96.94228	
Be 313.042	480.904	ppb	4.6494	1.0	1284803	96.18085	
Ca 370.602	5122	ppb	58.68	1.1	28859	102.43458	
Cd 226.502	481.837	ppb	3.7510	0.8	42642.4	96.36740	
Co 228.615	478.850	ppb	5.0687	1.1	9393.69	95.77003	
Cr 267.716	4935.98	ppb	33.3435	0.7	399283	98.71967	
Cu 324.754	4967.34	ppb	103.797	2.1	337857	99.34688	
Fe 271.441	4740.43	ppb	50.0850	1.1	13132.9	94.80867	
K 766.491	9537.17	ppb	73.2071	0.8	590090	95.37175	
Mg 279.078	4735.78	ppb	40.7388	0.9	24792.5	94.71558	
Mn 257.610	4834.20	ppb	46.6479	1.0	1639031	96.68406	
Mo 202.032	487.950	ppb	5.5953	1.1	4441.53	97.58999	
Na 330.237	6689.16	ppb	216.588	3.2	736.244	89.18882Q	
Ni 231.604	2386.44	ppb	18.1064	0.8	12790.5	95.45779	
Pb 220.353	480.597	ppb	5.4522	1.1	1627.34	96.11945	
Sb 206.834	971.629	ppb	10.9926	1.1	1725.32	97.16287	
Se 196.026	4679.28	ppb	29.0065	0.6	3632.02	93.58556	
Sn 189.925	4785.70	ppb	58.1922	1.2	7728.14	95.71404	
Sr 216.596	2403.63	ppb	21.4876	0.9	56262.8	96.14536	
Ti 334.941	479.993	ppb	4.0297	0.8	158636	95.99854	
Tl 190.794	4856.00	ppb	43.4973	0.9	8970.29	97.11996	
V 292.401	4786.85	ppb	45.4752	1.0	182917	95.73704	
Zn 206.200	2406.37	ppb	19.3142	0.8	7182.43	96.25468	

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Cont Calib Blank (CCB)		8/20/2015, 1:47:02 AM		Rack 3, Tube 14		
Weight: 1		Volume: 1		Dilution: 1		
Label	Replicates	Concentration				
Ag 328.068	-0.0185u	0.5480	-0.0493u			
Al 308.215	-19.3367u	-21.6167u	-18.6689u			
As 188.980	0.4568	-2.4237u	2.4937			
B 249.678	3.7005	3.1215	3.2571			
Ba 389.178	1.3134	2.8218	1.0628			
Be 313.042	0.0269	0.0308	0.0208			
Ca 370.602	6.793	7.625	3.343			
Cd 226.502	0.3796	0.3847	0.3893			
Co 228.615	0.5427	0.4851	0.8251			
Cr 267.716	-0.2980u	-0.4149u	0.0665			
Cu 324.754	-0.0758u	0.3763	0.0685			
Fe 271.441	2.6786	1.0155	-2.3009u			
K 766.491	-0.2964u	-0.2834u	-0.5940u			
Mg 279.078	-2.7194u	-6.0897u	-2.9735u			
Mn 257.610	0.2092	0.2265	0.2638			
Mo 202.032	0.9765	1.0788	0.7159			
Na 330.237	-260.441u	-308.241u	-162.240u			
Ni 231.604	1.3834	1.6031	1.6396			
Pb 220.353	0.2454	0.4513	-1.1679u			
Sb 206.834	-8.5719u	-3.8869u	-4.1838u			
Se 196.026	5.9983	-0.9335u	2.1874			
Sn 189.925	1.1523	0.2570	0.9673			
Sr 216.596	-0.1022u	0.2457	-0.0840u			
Ti 334.941	0.1244	-0.0255u	0.0818			
Tl 190.794	-1.6438u	1.6954	0.4805			
V 292.401	0.0661	0.4848	-0.1934u			
Zn 206.200	-0.0925u	0.6919	0.2333			
Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)	QC Value
Ag 328.068	0.1601	ppb	0.3363	210.1	26.7035	0.16007
Al 308.215	-19.8741	ppb	1.5456	7.8	522.320	-19.87411
As 188.980	0.1756	ppb	2.4707	1406.8	-12.3712	0.17562
B 249.678	3.3597	ppb	0.3028	9.0	160.429	3.35970
Ba 389.178	1.7326	ppb	0.9515	54.9	-155.481	1.73264
Be 313.042	0.0262	ppb	0.0051	19.3	-641.612	0.02619
Ca 370.602	5.920	ppb	2.271	38.4	-2.215	5.92021
Cd 226.502	0.3846	ppb	0.0048	1.3	124.990	0.38456
Co 228.615	0.6176	ppb	0.1820	29.5	-59.2267	0.61763
Cr 267.716	-0.2154	ppb	0.2511	116.6	25.9919	-0.21544
Cu 324.754	0.1230	ppb	0.2309	187.7	230.075	0.12301
Fe 271.441	0.4644	ppb	2.5351	545.9	156.602	0.46440
K 766.491	-0.3913	ppb	0.1757	44.9	504.762	-0.39127
Mg 279.078	-3.9275	ppb	1.8768	47.8	89.1029	-3.92755
Mn 257.610	0.2332	ppb	0.0279	12.0	116.000	0.23316
Mo 202.032	0.9237	ppb	0.1871	20.3	35.8972	0.92373
Na 330.237	-243.641	ppb	74.4361	30.6	162.350	-243.64072
Ni 231.604	1.5421	ppb	0.1386	9.0	-1.2173	1.54205
Pb 220.353	-0.1571	ppb	0.8815	561.1	61.9996	-0.15709
Sb 206.834	-5.5475	ppb	2.6234	47.3	30.8438	-5.54751
Se 196.026	2.4174	ppb	3.4717	143.6	-7.9981	2.41740
Sn 189.925	0.7922	ppb	0.4726	59.7	-28.9968	0.79219
Sr 216.596	0.0198	ppb	0.1958	Page 987 of 895	59.2372	0.01984

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Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)	QC Value
Ti 334.941	0.0603	ppb	0.0772	128.1	24.9677	0.06026
Tl 190.794	0.1774	ppb	1.6901	953.0	-50.8884	0.17736
V 292.401	0.1192	ppb	0.3422	287.1	-24.3217	0.11918
Zn 206.200	0.2776	ppb	0.3941	142.0	2.4911	0.27757

680-115692-a-32-b (Samp)      8/20/2015, 1:51:39 AM      Rack 3, Tube 15  
 Weight: 1      Volume: 1      Dilution: 1

Label	Replicates	Concentration				
Ag 328.068	-2.4899u	-2.9973u	-2.6983u			
Al 308.215	175231	175098	176531			
As 188.980	161.268	167.969	174.267			
B 249.678	0.7374u	0.6902u	-1.0476u			
Ba 389.178	1247.93	1248.37	1256.64			
Be 313.042	9.1129	9.1228	9.1962			
Ca 370.602	50812	50965	51251			
Cd 226.502	-0.6557	-0.6554	-0.6926			
Co 228.615	126.828	128.197	127.267			
Cr 267.716	555.992	555.916	559.466			
Cu 324.754	183.070	176.633	179.810			
Fe 271.441	382597	382141	384461			
K 766.491	5101.91	5090.69	5099.76			
Mg 279.078	16207.7	16188.0	16262.3			
Mn 257.610	17958.0	17993.5	18140.3			
Mo 202.032	12.8754	13.3691	12.6283			
Na 330.237	-224.996u	-366.049u	-100.408u			
Ni 231.604	102.684	104.068	101.612			
Pb 220.353	798.310	801.947	806.035			
Sb 206.834	-19.8264u	-12.9549u	-8.2799u			
Se 196.026	12.5055	16.6998	9.0362			
Sn 189.925	34.6589	33.2604	31.3026			
Sr 216.596	124.583	124.044	125.116			
Ti 334.941	1844.91	1847.95	1860.08			
Tl 190.794	17.1056u	21.6448u	20.0564u			
V 292.401	664.429	664.560	667.171			
Zn 206.200	1088.87	1086.81	1094.08			

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-2.7285	ppb	0.2551	9.3	-218.499
Al 308.215	175620	ppb	792.017	0.5	1494342
As 188.980	167.835	ppb	6.5006	3.9	181.563
B 249.678	0.1267	ppb	1.0172	802.9	-924.682
Ba 389.178	1250.98	ppb	4.9065	0.4	41474.9
Be 313.042	9.1440	ppb	0.0455	0.5	23806.5
Ca 370.602	51009	ppb	222.6	0.4	274819
Cd 226.502	-0.6679	ppb	0.0214	3.2	2309.23
Co 228.615	127.431	ppb	0.6989	0.5	2500.56
Cr 267.716	557.125	ppb	2.0280	0.4	45391.4
Cu 324.754	179.838	ppb	3.2184	1.8	12591.4
Fe 271.441	383066	ppb	1228.76	0.3	1034484
K 766.491	5097.45	ppb	5.9583	0.1	315639
Mg 279.078	16219.3	ppb	38.4828	0.2	84470.2
Mn 257.610	18030.6	ppb	96.6474	0.5	6114839
Mo 202.032	12.9576	ppb	0.3772	2.9	120.171

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Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Na 330.237	-230.484	ppb	132.905	57.7	5.1142
Ni 231.604	102.788	ppb	1.2314	1.2	577.699
Pb 220.353	802.097	ppb	3.8648	0.5	2733.21
Sb 206.834	-13.6871	ppb	5.8080	42.4	18.2386
Se 196.026	12.7471	ppb	3.8375	30.1	4.1348
Sn 189.925	33.0740	ppb	1.6859	5.1	23.3359
Sr 216.596	124.581	ppb	0.5360	0.4	3965.57
Ti 334.941	1850.98	ppb	8.0264	0.4	611782
Tl 190.794	19.6022	ppb	2.3034	11.8	-55.9719
V 292.401	665.387	ppb	1.5468	0.2	25442.2
Zn 206.200	1089.92	ppb	3.7487	0.3	3267.90

CRI (Samp) 8/20/2015, 1:56:15 AM Rack 3, Tube 16  
 Weight: 1 Volume: 1 Dilution: 1

Label	Replicates	Concentration				
Ag 328.068	9.9912	9.6716	9.8022			
Al 308.215	168.178	175.549	176.561			
As 188.980	21.7015	23.8965	24.1989			
B 249.678	91.4772	94.0115	94.6890			
Ba 389.178	10.9671	11.5034	10.9651			
Be 313.042	3.7759	3.8405	3.8500			
Ca 370.602	532.6	545.4	541.2			
Cd 226.502	5.2307	5.2706	5.1730			
Co 228.615	9.9762	10.1564	10.2398			
Cr 267.716	9.3436	9.6589	9.5757			
Cu 324.754	19.3878	21.1233	19.1141			
Fe 271.441	43.2882	47.9454	46.0662			
K 766.491	985.395	1000.75	1003.55			
Mg 279.078	470.057	475.987	478.396			
Mn 257.610	10.1338	10.2925	10.3158			
Mo 202.032	9.0343	10.1635	9.4998			
Na 330.237	670.626	944.252	857.451			
Ni 231.604	57.9966	59.0673	59.2384			
Pb 220.353	8.3173	6.3643	10.4487			
Sb 206.834	17.1774	14.2370	21.4348			
Se 196.026	14.7178	23.9605	12.0063			
Sn 189.925	45.9873	52.3363	50.5108			
Sr 216.596	11.0770	11.2034	11.2851			
Ti 334.941	11.2803	11.3646	11.5024			
Tl 190.794	26.7624	23.4736	24.0827			
V 292.401	11.4502	11.7877	11.6368			
Zn 206.200	20.7310	21.0270	20.8804			

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	9.8216	ppb	0.1607	1.6	943.231
Al 308.215	173.429	ppb	4.5757	2.6	2168.17
As 188.980	23.2657	ppb	1.3630	5.9	14.9435
B 249.678	93.3926	ppb	1.6930	1.8	1901.65
Ba 389.178	11.1452	ppb	0.3102	2.8	156.830
Be 313.042	3.8221	ppb	0.0403	1.1	9502.21
Ca 370.602	539.7	ppb	6.557	1.2	2955
Cd 226.502	5.2247	ppb	0.0491	0.9	552.407
Co 228.615	10.1241	ppb	0.1347	1.3	128.511

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<b>Label</b>	<b>Sol'n Conc.</b>	<b>Units</b>	<b>SD</b>	<b>%RSD</b>	<b>Int. (c/s)</b>
Cr 267.716	9.5261	ppb	0.1634	1.7	813.906
Cu 324.754	19.8751	ppb	1.0897	5.5	1573.01
Fe 271.441	45.7666	ppb	2.3430	5.1	280.771
K 766.491	996.567	ppb	9.7756	1.0	62133.9
Mg 279.078	474.813	ppb	4.2916	0.9	2603.63
Mn 257.610	10.2473	ppb	0.0990	1.0	3517.01
Mo 202.032	9.5659	ppb	0.5675	5.9	114.183
Na 330.237	824.109	ppb	139.827	17.0	251.483
Ni 231.604	58.7675	ppb	0.6730	1.1	305.721
Pb 220.353	8.3768	ppb	2.0428	24.4	89.6853
Sb 206.834	17.6164	ppb	3.6189	20.5	69.2774
Se 196.026	16.8948	ppb	6.2674	37.1	3.2676
Sn 189.925	49.6114	ppb	3.2687	6.6	50.1479
Sr 216.596	11.1885	ppb	0.1049	0.9	317.958
Ti 334.941	11.3824	ppb	0.1122	1.0	3767.44
Tl 190.794	24.7729	ppb	1.7497	7.1	-5.2278
V 292.401	11.6249	ppb	0.1691	1.5	413.579
Zn 206.200	20.8795	ppb	0.1480	0.7	64.2373

mb 680-396577/1-a (Samp)

8/20/2015, 2:00:51 AM

Rack 3, Tube 17

Weight: 1

Volume: 1

Dilution: 1

<b>Label</b>	<b>Replicates</b>	<b>Concentration</b>
Ag 328.068	0.1492	-0.3099u
Al 308.215	-11.5705u	-10.6627u
As 188.980	1.5782	-2.3654u
B 249.678	1.3602	0.8085
Ba 389.178	1.2192	1.5652
Be 313.042	0.0269	0.0290
Ca 370.602	35.05	36.77
Cd 226.502	0.3416	0.4387
Co 228.615	0.9670	0.6372
Cr 267.716	0.3669	-0.0161u
Cu 324.754	0.1852	0.4029
Fe 271.441	11.1631	9.0200
K 766.491	11.5933	10.9766
Mg 279.078	4.6468	4.5265
Mn 257.610	1.3350	1.2621
Mo 202.032	0.4983	0.6065
Na 330.237	-66.2324u	-191.978u
Ni 231.604	1.2292	3.5274
Pb 220.353	-0.0850u	-3.7290u
Sb 206.834	-7.0024u	-4.5993u
Se 196.026	-4.1985u	4.2302
Sn 189.925	10.8206	10.5288
Sr 216.596	-0.1205u	0.0229
Ti 334.941	0.2060	0.2182
Tl 190.794	3.9881	4.7410
V 292.401	-0.0122u	0.1569
Zn 206.200	6.2409	6.3582

<b>Label</b>	<b>Sol'n Conc.</b>	<b>Units</b>	<b>SD</b>	<b>%RSD</b>	<b>Int. (c/s)</b>
Ag 328.068	-0.0243	ppb	0.2492	1026.3	9.2083
Al 308.215	-9.7086	ppb	2.4806	25.6	608.764

E08192015.wvq. All Data Report 8/20/2015, 3:03:52 PM

<b>Label</b>	<b>Sol'n Conc.</b>	<b>Units</b>	<b>SD</b>	<b>%RSD</b>	<b>Int. (c/s)</b>
As 188.980	-1.5975	ppb	2.8699	179.6	-14.4692
B 249.678	1.1742	ppb	0.3167	27.0	118.180
Ba 389.178	1.3573	ppb	0.1833	13.5	-167.855
Be 313.042	0.0263	ppb	0.0031	11.7	-641.265
Ca 370.602	35.92	ppb	0.8588	2.4	163.3
Cd 226.502	0.4256	ppb	0.0783	18.4	128.695
Co 228.615	0.5613	ppb	0.4486	79.9	-60.3250
Cr 267.716	0.1463	ppb	0.1981	135.4	55.2646
Cu 324.754	0.3834	ppb	0.1892	49.4	247.769
Fe 271.441	10.0450	ppb	1.0746	10.7	182.467
K 766.491	11.6427	ppb	0.6922	5.9	1248.67
Mg 279.078	4.5658	ppb	0.0701	1.5	133.672
Mn 257.610	1.3162	ppb	0.0476	3.6	483.336
Mo 202.032	0.4905	ppb	0.1202	24.5	31.9704
Na 330.237	-92.1203	ppb	89.7589	97.4	174.992
Ni 231.604	2.1576	ppb	1.2111	56.1	2.0860
Pb 220.353	-1.0907	ppb	2.3063	211.4	58.9712
Sb 206.834	-4.5545	ppb	2.4706	54.2	32.5068
Se 196.026	-2.5588	ppb	6.1357	239.8	-11.8688
Sn 189.925	10.2694	ppb	0.7170	7.0	-13.6327
Sr 216.596	0.0192	ppb	0.1379	718.8	59.2439
Ti 334.941	0.2019	ppb	0.0186	9.2	71.7884
Tl 190.794	2.9966	ppb	2.3992	80.1	-45.6616
V 292.401	0.1951	ppb	0.2288	117.3	-21.3422
Zn 206.200	6.0765	ppb	0.3907	6.4	19.8904

lcs 680-396577/2-a (Samp)      8/20/2015, 2:05:28 AM      Rack 3, Tube 18  
 Weight: 1      Volume: 1      Dilution: 1

<b>Label</b>	<b>Replicates</b>	<b>Concentration</b>
Ag 328.068	46.6685	47.5939
Al 308.215	4473.57	4549.10
As 188.980	93.9873	96.5925
B 249.678	174.343	176.024
Ba 389.178	94.2118	96.3303
Be 313.042	48.0510	48.8905
Ca 370.602	4743	4840
Cd 226.502	47.6507	48.7050
Co 228.615	47.3942	48.2863
Cr 267.716	95.1045	97.2971
Cu 324.754	97.0323	98.0387
Fe 271.441	4508.59	4574.23
K 766.491	4560.19	4627.84
Mg 279.078	4393.93	4468.35
Mn 257.610	464.605	472.952
Mo 202.032	92.7439	95.0774
Na 330.237	4181.45	4401.59
Ni 231.604	94.3959	96.9602
Pb 220.353	446.959	456.014
Sb 206.834	43.5547	40.4231
Se 196.026	84.7124	85.6850
Sn 189.925	194.016	192.639
Sr 216.596	90.4871	92.7957
Ti 334.941	93.3941	95.2320

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Label	Replicates Concentration			
Tl 190.794	39.4891	40.7131	44.1117	
V 292.401	93.3015	95.0228	93.0763	
Zn 206.200	94.0640	93.4695	93.7753	

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	47.0650	ppb	0.4767	1.0	4476.54
Al 308.215	4497.94	ppb	44.3222	1.0	38960.7
As 188.980	96.2607	ppb	2.1269	2.2	101.207
B 249.678	174.875	ppb	0.9964	0.6	3465.71
Ba 389.178	94.6569	ppb	1.5011	1.6	2930.32
Be 313.042	48.3126	ppb	0.5012	1.0	128395
Ca 370.602	4774	ppb	56.42	1.2	26325
Cd 226.502	48.0734	ppb	0.5574	1.2	4360.50
Co 228.615	47.8919	ppb	0.4550	0.9	872.999
Cr 267.716	95.9299	ppb	1.1925	1.2	7806.87
Cu 324.754	97.2417	ppb	0.7157	0.7	6836.20
Fe 271.441	4527.59	ppb	40.6228	0.9	12390.1
K 766.491	4582.71	ppb	39.0829	0.9	283819
Mg 279.078	4418.63	ppb	43.0596	1.0	23301.1
Mn 257.610	467.405	ppb	4.8042	1.0	158573
Mo 202.032	93.4727	ppb	1.3917	1.5	874.054
Na 330.237	4253.45	ppb	128.313	3.0	535.973
Ni 231.604	95.7779	ppb	1.2938	1.4	504.522
Pb 220.353	449.452	ppb	5.7365	1.3	1522.78
Sb 206.834	44.4347	ppb	4.5163	10.2	113.593
Se 196.026	87.2450	ppb	3.5776	4.1	58.1373
Sn 189.925	192.245	ppb	1.9978	1.0	281.383
Sr 216.596	91.3821	ppb	1.2386	1.4	2205.78
Ti 334.941	94.0739	ppb	1.0080	1.1	31102.5
Tl 190.794	41.4380	ppb	2.3950	5.8	25.5872
V 292.401	93.8002	ppb	1.0648	1.1	3534.31
Zn 206.200	93.7696	ppb	0.2973	0.3	282.270

680-115692-a-1-d (Samp)      8/20/2015, 2:10:04 AM      Rack 3, Tube 19  
 Weight: 1      Volume: 1      Dilution: 1

Label	Replicates Concentration			
Ag 328.068	-1.5496u	-0.6410u	-0.6998u	
Al 308.215	145541	144970	144794	
As 188.980	213.676	213.416	207.359	
B 249.678	6.0199u	6.3587u	5.3318u	
Ba 389.178	876.480	872.177	872.352	
Be 313.042	7.8532	7.8225	7.8343	
Ca 370.602	153762	153460	153550	
Cd 226.502	-2.5592	-2.6724	-2.7378	
Co 228.615	77.2951	79.1681	81.0741	
Cr 267.716	818.804	818.186	818.226	
Cu 324.754	154.893	153.592	156.601	
Fe 271.441	457708	457021	456139	
K 766.491	3933.92	3922.26	3923.78	
Mg 279.078	60764.1	60524.1	60595.1	
Mn 257.610	13259.6	13263.3	13424.0	
Mo 202.032	14.3697	13.1169	13.7811	
Na 330.237	-559.305u	-433.475u	-384.010u	

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Label	Replicates Concentration		
Ni 231.604	74.3516	72.2421	73.0164
Pb 220.353	367.454	363.440	364.966
Sb 206.834	-15.5586u	-20.5019u	-20.8386u
Se 196.026	20.3516	16.6095	19.2239
Sn 189.925	31.4643	29.3129	28.4733
Sr 216.596	179.689	179.639	179.491
Ti 334.941	2481.18	2475.49	2477.97
Tl 190.794	21.6112u	18.5041u	13.9078u
V 292.401	832.120	829.826	829.574
Zn 206.200	624.730	618.693	618.877

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.9635	ppb	0.5085	52.8	-95.3388
Al 308.215	145102	ppb	390.863	0.3	1234841
As 188.980	211.484	ppb	3.5739	1.7	232.356
B 249.678	5.9035	ppb	0.5232	8.9	-1009.73
Ba 389.178	873.670	ppb	2.4356	0.3	29174.2
Be 313.042	7.8367	ppb	0.0155	0.2	20368.5
Ca 370.602	153591	ppb	155.1	0.1	839810
Cd 226.502	-2.6565	ppb	0.0904	3.4	2571.83
Co 228.615	79.1791	ppb	1.8895	2.4	1568.07
Cr 267.716	818.405	ppb	0.3461	0.0	66520.7
Cu 324.754	155.029	ppb	1.5091	1.0	10932.1
Fe 271.441	456956	ppb	786.369	0.2	1233983
K 766.491	3926.65	ppb	6.3373	0.2	243263
Mg 279.078	60627.8	ppb	123.325	0.2	317980
Mn 257.610	13315.6	ppb	93.8947	0.7	4517214
Mo 202.032	13.7559	ppb	0.6268	4.6	122.586
Na 330.237	-458.930	ppb	90.3772	19.7	-43.5570
Ni 231.604	73.2034	ppb	1.0671	1.5	426.147
Pb 220.353	365.287	ppb	2.0259	0.6	1325.34
Sb 206.834	-18.9664	ppb	2.9560	15.6	12.1784
Se 196.026	18.7283	ppb	1.9197	10.2	6.3905
Sn 189.925	29.7502	ppb	1.5427	5.2	17.9470
Sr 216.596	179.606	ppb	0.1030	0.1	5447.61
Ti 334.941	2478.21	ppb	2.8509	0.1	819158
Tl 190.794	18.0077	ppb	3.8756	21.5	-74.1427
V 292.401	830.507	ppb	1.4030	0.2	31759.2
Zn 206.200	620.767	ppb	3.4334	0.6	1857.83

680-115692-a-1-dSD (Samp)      8/20/2015, 2:14:40 AM      Rack 3, Tube 20  
 Weight: 1      Volume: 1      Dilution: 1

Label	Replicates Concentration		
Ag 328.068	-0.4214u	-0.6126u	-0.4982u
Al 308.215	33537.1	33323.3	33282.9
As 188.980	46.0561	49.0669	49.0434
B 249.678	1.4222u	2.5990u	1.5583u
Ba 389.178	200.353	201.352	200.266
Be 313.042	1.8132	1.7940	1.7902
Ca 370.602	35871	35493	35494
Cd 226.502	-0.4879	-0.6363	-0.5016
Co 228.615	19.4046	18.9254	18.5793
Cr 267.716	188.741	186.380	186.804

E08192015.wvq. All Data Report 8/20/2015, 3:03:52 PM

Label	Replicates	Concentration			
Cu 324.754	35.8695	37.1437	34.9830		
Fe 271.441	108789	107545	107611		
K 766.491	811.450	800.697	813.724		
Mg 279.078	14028.5	13938.4	13943.9		
Mn 257.610	3148.15	3112.16	3120.62		
Mo 202.032	3.7480	3.5377	3.5845		
Na 330.237	-235.304u	-219.879u	-288.793u		
Ni 231.604	18.8390	17.4394	19.4451		
Pb 220.353	84.4998	86.6036	85.3855		
Sb 206.834	2.0502	-5.7515u	-12.7178u		
Se 196.026	-1.2919u	8.4781	9.0494		
Sn 189.925	8.3890	9.5797	8.1111		
Sr 216.596	42.1380	41.4647	41.4558		
Ti 334.941	583.683	577.200	576.411		
Tl 190.794	4.9219u	7.5735	4.5665u		
V 292.401	191.596	189.410	189.004		
Zn 206.200	143.834	142.818	143.729		

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.5107	ppb	0.0962	18.8	-40.6890
Al 308.215	33381.1	ppb	136.614	0.4	284612
As 188.980	48.0555	ppb	1.7316	3.6	43.0290
B 249.678	1.8598	ppb	0.6438	34.6	-156.811
Ba 389.178	200.657	ppb	0.6037	0.3	6539.24
Be 313.042	1.7991	ppb	0.0123	0.7	4128.12
Ca 370.602	35619	ppb	217.6	0.6	194690
Cd 226.502	-0.5419	ppb	0.0820	15.1	685.250
Co 228.615	18.9697	ppb	0.4145	2.2	320.910
Cr 267.716	187.308	ppb	1.2590	0.7	15260.1
Cu 324.754	35.9987	ppb	1.0861	3.0	2709.53
Fe 271.441	107982	ppb	699.737	0.6	291717
K 766.491	808.624	ppb	6.9582	0.9	50515.8
Mg 279.078	13970.3	ppb	50.5009	0.4	73353.4
Mn 257.610	3126.98	ppb	18.8158	0.6	1060829
Mo 202.032	3.6234	ppb	0.1104	3.0	53.3734
Na 330.237	-247.992	ppb	36.1666	14.6	117.557
Ni 231.604	18.5745	ppb	1.0287	5.5	100.306
Pb 220.353	85.4963	ppb	1.0563	1.2	358.282
Sb 206.834	-5.4731	ppb	7.3879	135.0	31.7346
Se 196.026	5.4119	ppb	5.8126	107.4	-5.2741
Sn 189.925	8.6933	ppb	0.7801	9.0	-16.1883
Sr 216.596	41.6862	ppb	0.3913	0.9	1314.66
Ti 334.941	579.098	ppb	3.9903	0.7	191421
Tl 190.794	5.6873	ppb	1.6431	28.9	-54.0224
V 292.401	190.003	ppb	1.3942	0.7	7243.76
Zn 206.200	143.460	ppb	0.5587	0.4	430.630

680-115692-a-1-dPDS (Samp)    8/20/2015, 2:19:17 AM    Rack 3, Tube 21  
 Weight: 1    Volume: 1    Dilution: 1

Label	Replicates	Concentration			
Ag 328.068	57.7464	55.7234	57.6977		
Al 308.215	143763	144015	143460		
As 188.980	290.298	302.619	294.066		

<b>Label</b>	<b>Replicates</b>	<b>Concentration</b>			
B 249.678	166.906	169.855	167.874		
Ba 389.178	944.785	948.401	946.991		
Be 313.042	94.5395	94.9027	94.5946		
Ca 370.602	160373	159810	159937		
Cd 226.502	79.7128	80.4240	79.9851		
Co 228.615	164.834	166.458	160.270		
Cr 267.716	887.209	891.528	892.512		
Cu 324.754	246.558	239.001	250.800		
Fe 271.441	457961	459161	459107		
K 766.491	13416.4	13536.3	13406.8		
Mg 279.078	67696.9	68257.1	67667.3		
Mn 257.610	13940.2	13922.2	13393.9		
Mo 202.032	97.9348	98.6860	98.2949		
Na 330.237	7537.66	7729.60	7735.12		
Ni 231.604	153.943	153.264	156.232		
Pb 220.353	448.342	443.796	440.693		
Sb 206.834	61.2021	69.2814	72.1183		
Se 196.026	112.046	108.674	103.763		
Sn 189.925	111.756	115.869	113.482		
Sr 216.596	258.763	259.428	257.605		
Ti 334.941	2531.07	2536.47	2530.30		
Tl 190.794	36.7464	35.6561	33.8118		
V 292.401	907.183	908.829	908.013		
Zn 206.200	693.244	693.123	691.618		

<b>Label</b>	<b>Sol'n Conc.</b>	<b>Units</b>	<b>SD</b>	<b>%RSD</b>	<b>Int. (c/s)</b>
Ag 328.068	57.0558	ppb	1.1542	2.0	5409.95
Al 308.215	143746	ppb	277.816	0.2	1223328
As 188.980	295.661	ppb	6.3133	2.1	331.882
B 249.678	168.212	ppb	1.5032	0.9	2125.40
Ba 389.178	946.725	ppb	1.8225	0.2	31607.9
Be 313.042	94.6789	ppb	0.1957	0.2	252447
Ca 370.602	160040	ppb	295.4	0.2	875450
Cd 226.502	80.0406	ppb	0.3588	0.4	9880.87
Co 228.615	163.854	ppb	3.2082	2.0	3238.50
Cr 267.716	890.416	ppb	2.8207	0.3	72347.6
Cu 324.754	245.453	ppb	5.9766	2.4	17081.9
Fe 271.441	458743	ppb	677.725	0.1	1238824
K 766.491	13453.2	ppb	72.1274	0.5	832165
Mg 279.078	67873.7	ppb	332.298	0.5	356031
Mn 257.610	13752.1	ppb	310.298	2.3	4665286
Mo 202.032	98.3052	ppb	0.3757	0.4	888.453
Na 330.237	7667.46	ppb	112.441	1.5	634.343
Ni 231.604	154.480	ppb	1.5551	1.0	861.946
Pb 220.353	444.277	ppb	3.8473	0.9	1582.09
Sb 206.834	67.5339	ppb	5.6640	8.4	155.349
Se 196.026	108.161	ppb	4.1655	3.9	76.1169
Sn 189.925	113.702	ppb	2.0653	1.8	154.053
Sr 216.596	258.599	ppb	0.9225	0.4	7297.97
Ti 334.941	2532.61	ppb	3.3581	0.1	837150
Tl 190.794	35.4048	ppb	1.4834	4.2	-41.3692
V 292.401	908.008	ppb	0.8227	0.1	34701.3
Zn 206.200	692.662	ppb	0.9061	0.1	2072.98

E08192015.wvq. All Data Report 8/20/2015, 3:03:52 PM

680-115692-a-1-e ms (Samp)	8/20/2015, 2:23:53 AM	Rack 3, Tube 22
Weight: 1	Volume: 1	Dilution: 1
<b>Label      Replicates Concentration</b>		
Ag 328.068	45.9396	46.8133
Al 308.215	155741	155928
As 188.980	273.441	273.808
B 249.678	131.546	131.569
Ba 389.178	1430.47	1432.36
Be 313.042	56.2836	56.2500
Ca 370.602	216793	216869
Cd 226.502	43.4828	43.6067
Co 228.615	124.839	126.562
Cr 267.716	1135.42	1134.40
Cu 324.754	288.106	288.983
Fe 271.441	456041	455733
K 766.491	9884.27	9857.27
Mg 279.078	73008.3	73123.8
Mn 257.610	18380.7	18385.9
Mo 202.032	155.135	155.764
Na 330.237	3972.08	4012.04
Ni 231.604	270.218	271.185
Pb 220.353	901.873	900.401
Sb 206.834	14.2509	15.9169
Se 196.026	93.6692	96.4709
Sn 189.925	209.403	206.490
Sr 216.596	366.251	368.207
Ti 334.941	4073.64	4079.10
Tl 190.794	59.6590	53.6663
V 292.401	914.717	913.181
Zn 206.200	822.962	824.650
		814.852

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	46.2836	ppb	0.4655	1.0	4410.64
Al 308.215	155517	ppb	558.414	0.4	1323429
As 188.980	273.016	ppb	1.0698	0.4	305.092
B 249.678	131.952	ppb	0.6830	0.5	1432.77
Ba 389.178	1427.00	ppb	7.7091	0.5	47487.4
Be 313.042	56.1855	ppb	0.1418	0.3	149586
Ca 370.602	216499	ppb	577.6	0.3	1188839
Cd 226.502	43.2782	ppb	0.4659	1.1	6608.88
Co 228.615	125.426	ppb	0.9841	0.8	2532.55
Cr 267.716	1131.67	ppb	5.6361	0.5	91900.5
Cu 324.754	288.002	ppb	1.0368	0.4	19975.1
Fe 271.441	455292	ppb	1041.53	0.2	1229502
K 766.491	9844.23	ppb	47.9117	0.5	609072
Mg 279.078	72737.4	ppb	572.216	0.8	381391
Mn 257.610	18334.3	ppb	84.9369	0.5	6218809
Mo 202.032	154.747	ppb	1.2579	0.8	1400.07
Na 330.237	3979.87	ppb	29.0754	0.7	327.495
Ni 231.604	269.012	ppb	2.9648	1.1	1476.16
Pb 220.353	897.768	ppb	5.8811	0.7	3054.41
Sb 206.834	16.7145	ppb	2.9445	17.6	73.9794
Se 196.026	94.2143	ppb	2.0395	2.2	67.0746
Sn 189.925	207.161	ppb	1.9926	1.0	305.563
Sr 216.596	366.146	ppb	2.1154	0.6	9802.19

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<b>Label</b>	<b>Sol'n Conc.</b>	<b>Units</b>	<b>SD</b>	<b>%RSD</b>	<b>Int. (c/s)</b>
Ti 334.941	4067.35	ppb	15.8601	0.4	1344336
Tl 190.794	56.1082	ppb	3.1465	5.6	1.2298
V 292.401	911.647	ppb	4.0605	0.4	34826.2
Zn 206.200	820.821	ppb	5.2381	0.6	2455.59

680-115692-a-1-f msd (Samp) 8/20/2015, 2:28:29 AM

Rack 3, Tube 23

**Weight:** 1

Volume: 1

### Dilution: 1

Label	Replicates	Concentration
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Ag	328.068	45.7044	43.8581
Al	308.215	156513	155539
As	188.980	385.652	387.938
B	249.678	105.410	107.936
Ba	389.178	2007.84	2004.83
Be	313.042	60.9246	60.5361
Ca	370.602	332765	331677
Cd	226.502	41.1865	41.4567
Co	228.615	305.650	297.253
Cr	267.716	1343.12	1337.65
Cu	324.754	273.108	261.365
Fe	271.441	714077	713011
K	766.491	8844.31	8868.98
Mg	279.078	147499	146973
Mn	257.610	24009.0	23911.2
Mo	202.032	100.049	99.0773
Na	330.237	3698.87	3624.55
Ni	231.604	179.958	178.022
Pb	220.353	1074.58	1074.05
Sb	206.834	9.2661	4.8968
Se	196.026	106.451	98.4436
Sn	189.925	196.524	203.256
Sr	216.596	297.960	295.160
Ti	334.941	1952.99	1936.69
Tl	190.794	63.6332	64.6744
V	292.401	1170.76	1165.25
Zn	206.200	900.511	902.160

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	44.4524	ppb	1.0848	2.4	4221.50
Al 308.215	156105	ppb	505.813	0.3	1328495
As 188.980	388.400	ppb	3.0048	0.8	438.637
B 249.678	107.022	ppb	1.4008	1.3	255.835
Ba 389.178	2008.94	ppb	4.7588	0.2	67107.3
Be 313.042	60.7752	ppb	0.2092	0.3	161928
Ca 370.602	332143	ppb	561.0	0.2	1819614
Cd 226.502	41.5545	ppb	0.4254	1.0	8020.69
Co 228.615	294.935	ppb	12.0429	4.1	5799.16
Cr 267.716	1341.66	ppb	3.5207	0.3	109021
Cu 324.754	263.992	ppb	8.1283	3.1	18441.2
Fe 271.441	715445	ppb	3335.09	0.5	1931956
K 766.491	8863.87	ppb	17.5780	0.2	548468
Mg 279.078	147355	ppb	333.601	0.2	773165
Mn 257.610	24002.9	ppb	88.7811	0.4	8142707
Mo 202.032	100.387	ppb	1.5079	1.5	890.990

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Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Na 330.237	3740.83	ppb	142.001	3.8	201.084
Ni 231.604	179.548	ppb	1.3680	0.8	1020.16
Pb 220.353	1076.85	ppb	4.3930	0.4	3684.75
Sb 206.834	7.9582	ppb	2.6606	33.4	58.5341
Se 196.026	99.0629	ppb	7.0983	7.2	71.0741
Sn 189.925	199.538	ppb	3.4210	1.7	293.204
Sr 216.596	296.916	ppb	1.5299	0.5	8860.11
Ti 334.941	1946.21	ppb	8.4901	0.4	643560
Tl 190.794	62.7081	ppb	2.5576	4.1	-20.1830
V 292.401	1168.64	ppb	2.9690	0.3	44652.7
Zn 206.200	905.044	ppb	6.4765	0.7	2706.58

680-115692-a-18-b (Samp)

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Rack 3, Tube 24

Weight: 1

Volume: 1

Dilution: 1

Label	Replicates	Concentration			
Ag 328.068	-3.3102u	-2.4172u	-2.9802u		
Al 308.215	188994	189492	189105		
As 188.980	165.355	177.805	182.158		
B 249.678	7.4895u	6.5477u	5.9553u		
Ba 389.178	1665.71	1661.10	1668.96		
Be 313.042	6.9128	6.9069	6.9079		
Ca 370.602	69417	69491	69240		
Cd 226.502	-2.8311	-2.6951	-2.9918		
Co 228.615	197.851	201.057	199.620		
Cr 267.716	1008.02	1007.75	1006.26		
Cu 324.754	1171.56	1165.88	1190.91		
Fe 271.441	538574	536273	536031		
K 766.491	6822.44	6838.46	6836.00		
Mg 279.078	6613.37	6617.24	6592.96		
Mn 257.610	44577.3x	44649.1x	44648.9x		
Mo 202.032	68.8810	68.8056	66.8393		
Na 330.237	-651.065u	-669.752u	-649.048u		
Ni 231.604	262.595	262.019	258.883		
Pb 220.353	699.766	700.908	697.248		
Sb 206.834	-9.1233u	-14.7875u	-19.2188u		
Se 196.026	25.7569	25.3606	27.7757		
Sn 189.925	78.0788	82.7836	81.4750		
Sr 216.596	222.983	221.435	221.539		
Ti 334.941	3620.61	3632.12	3623.42		
Tl 190.794	31.8506	39.6627	32.9684		
V 292.401	826.628	825.681	824.835		
Zn 206.200	860.305	855.722	852.153		

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-2.9025b	ppb	0.4516	15.6	-113.675
Al 308.215	189197b	ppb	261.325	0.1	1609848
As 188.980	175.106b	ppb	8.7203	5.0	188.354
B 249.678	6.6641b	ppb	0.7737	11.6	-1207.69
Ba 389.178	1665.26b	ppb	3.9497	0.2	55265.7
Be 313.042	6.9092b	ppb	0.0031	0.0	17831.6
Ca 370.602	69383b	ppb	128.6	0.2	375364
Cd 226.502	-2.8393b	ppb	0.1485	5.2	3024.37
Co 228.615	199.509b	ppb	1.6061	0.8	3981.63

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Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Cr 267.716	1007.35b	ppb	0.9482	0.1	82068.1
Cu 324.754	1176.12b	ppb	13.1244	1.1	80379.6
Fe 271.441	536959b	ppb	1403.73	0.3	1450017
K 766.491	6832.30b	ppb	8.6291	0.1	422882
Mg 279.078	6607.86b	ppb	13.0437	0.2	32907.0
Mn 257.610	44625.1xb	ppb	41.3799	0.1	15131616
Mo 202.032	68.1753b	ppb	1.1576	1.7	610.730
Na 330.237	-656.622b	ppb	11.4159	1.7	-93.0779
Ni 231.604	261.166b	ppb	1.9976	0.8	1441.48
Pb 220.353	699.307b	ppb	1.8727	0.3	2434.28
Sb 206.834	-14.3765b	ppb	5.0603	35.2	20.1874
Se 196.026	26.2977b	ppb	1.2952	4.9	23.8290
Sn 189.925	80.7791b	ppb	2.4284	3.0	100.673
Sr 216.596	221.986b	ppb	0.8653	0.4	6636.56
Ti 334.941	3625.39b	ppb	6.0016	0.2	1198163
Tl 190.794	34.8272b	ppb	4.2248	12.1	-27.8147
V 292.401	825.715b	ppb	0.8969	0.1	31559.8
Zn 206.200	856.060b	ppb	4.0863	0.5	2562.38

Cont Calib Verif (CCV)

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Rack 3, Tube 25

Weight: 1

Volume: 1

Dilution: 1

Label	Replicates	Concentration					
Ag 328.068	482.371	464.912	491.294				
Al 308.215	4826.12	4688.02	4680.20				
As 188.980	468.622	475.573	462.171				
B 249.678	467.883	459.242	457.888				
Ba 389.178	4896.54	4765.54	4768.83				
Be 313.042	485.617	474.235	473.738				
Ca 370.602	5223	5051	5061				
Cd 226.502	488.046	475.753	475.067				
Co 228.615	483.299	470.279	470.855				
Cr 267.716	5012.52	4899.36	4897.01				
Cu 324.754	5105.38	4831.71	4955.88				
Fe 271.441	4807.11	4677.66	4676.64				
K 766.491	9660.24	9393.69	9389.21				
Mg 279.078	4793.21	4656.99	4651.91				
Mn 257.610	4905.82	4783.99	4770.85				
Mo 202.032	495.854	480.636	480.901				
Na 330.237	6820.54	6494.03	6577.95				
Ni 231.604	2418.07	2353.33	2352.25				
Pb 220.353	490.981	476.823	471.590				
Sb 206.834	977.004	950.989	960.916				
Se 196.026	4711.04	4612.05	4606.50				
Sn 189.925	4910.45	4902.51	4817.36				
Sr 216.596	2448.30	2375.50	2377.16				
Ti 334.941	486.485	473.585	473.252				
Tl 190.794	4897.66	4763.08	4798.51				
V 292.401	4850.86	4725.26	4729.29				
Zn 206.200	2441.55	2371.27	2359.17				

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)	QC Value
Ag 328.068	479.526	ppb	13.4189	2.8	45467.8	95.90511
Al 308.215	4731.45	ppb	82.0803	1.7	41593.3	94.62891

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Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)	QC Value
As 188.980	468.789	ppb	6.7029	1.4	541.737	93.75774
B 249.678	461.671	ppb	5.4223	1.2	9026.25	92.33422
Ba 389.178	4810.30	ppb	74.6996	1.6	158771	96.20605
Be 313.042	477.863	ppb	6.7195	1.4	1276675	95.57266
Ca 370.602	5112	ppb	96.69	1.9	28801	102.23502
Cd 226.502	479.622	ppb	7.3035	1.5	42446.8	95.92439
Co 228.615	474.811	ppb	7.3568	1.5	9313.77	94.96220
Cr 267.716	4936.30	ppb	66.0219	1.3	399308	98.72596
Cu 324.754	4964.32	ppb	137.030	2.8	337652	99.28647
Fe 271.441	4720.47	ppb	75.0343	1.6	13078.0	94.40932
K 766.491	9481.05	ppb	155.199	1.6	586620	94.81047
Mg 279.078	4700.71	ppb	80.1537	1.7	24609.1	94.01412
Mn 257.610	4820.22	ppb	74.4246	1.5	1634291	96.40441
Mo 202.032	485.797	ppb	8.7106	1.8	4422.05	97.15948
Na 330.237	6630.84	ppb	169.560	2.6	731.405	88.41123Q
Ni 231.604	2374.55	ppb	37.6933	1.6	12726.7	94.98197
Pb 220.353	479.798	ppb	10.0321	2.1	1624.73	95.95959
Sb 206.834	962.970	ppb	13.1286	1.4	1710.82	96.29698
Se 196.026	4643.20	ppb	58.8193	1.3	3603.94	92.86395
Sn 189.925	4876.77	ppb	51.6090	1.1	7875.78	97.53547
Sr 216.596	2400.32	ppb	41.5594	1.7	56185.7	96.01285
Ti 334.941	477.774	ppb	7.5460	1.6	157902	95.55482
Tl 190.794	4819.75	ppb	69.7578	1.4	8903.00	96.39496
V 292.401	4768.47	ppb	71.3798	1.5	182214	95.36938
Zn 206.200	2390.66	ppb	44.4855	1.9	7135.42	95.62650

Cont Calib Blank (CCB) 8/20/2015, 2:42:19 AM

Weight: 1 Volume: 1

Rack 3, Tube 26

Dilution: 1

Label	Replicates	Concentration	
Ag 328.068	0.7073	0.0626	-0.3026u
Al 308.215	-19.3502u	-19.1341u	-18.7442u
As 188.980	-2.5603u	-2.7573u	2.0755
B 249.678	3.5887	3.3047	3.1217
Ba 389.178	1.8475	1.4540	1.4194
Be 313.042	0.0247	0.0262	0.0313
Ca 370.602	6.073	2.986	6.024
Cd 226.502	0.3728	0.4608	0.4047
Co 228.615	0.6393	0.7994	0.3973
Cr 267.716	-0.1280u	-0.4359u	-0.0809u
Cu 324.754	0.0486	-0.6009u	-0.0714u
Fe 271.441	-1.0072u	-6.3006u	-9.2254u
K 766.491	-0.1570u	-1.4545u	-0.7397u
Mg 279.078	-4.6550u	-3.4430u	-6.2909u
Mn 257.610	0.1160	0.1145	0.1073
Mo 202.032	0.6306	0.6651	0.9281
Na 330.237	-469.970u	-348.278u	-362.599u
Ni 231.604	0.6594	1.3859	1.3368
Pb 220.353	-1.9280u	-1.3397u	-1.9292u
Sb 206.834	-5.5806u	-5.3773u	-5.6287u
Se 196.026	-1.6869u	-8.8812u	-7.5771u
Sn 189.925	1.1771	2.2405	0.2648
Sr 216.596	0.1711	0.0553	0.0263
Ti 334.941	0.0433	0.0047	-0.0077u

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Label	Replicates Concentration		
Tl 190.794	3.2411	2.3214	1.5722
V 292.401	0.2530	0.5398	0.4307
Zn 206.200	-0.3271u	1.2506	0.3248

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)	QC Value
Ag 328.068	0.1557	ppb	0.5113	328.3	26.2819	0.15574
Al 308.215	-19.0762	ppb	0.3071	1.6	529.143	-19.07619
As 188.980	-1.0807	ppb	2.7351	253.1	-13.8577	-1.08069
B 249.678	3.3384	ppb	0.2353	7.0	160.044	3.33838
Ba 389.178	1.5736	ppb	0.2378	15.1	-160.733	1.57365
Be 313.042	0.0274	ppb	0.0035	12.7	-638.317	0.02740
Ca 370.602	5.028	ppb	1.768	35.2	-7.210	5.02762
Cd 226.502	0.4128	ppb	0.0446	10.8	127.498	0.41277
Co 228.615	0.6120	ppb	0.2025	33.1	-59.3354	0.61199
Cr 267.716	-0.2149	ppb	0.1928	89.7	26.0233	-0.21493
Cu 324.754	-0.2079	ppb	0.3456	166.2	207.574	-0.20792
Fe 271.441	-5.5111	ppb	4.1656	75.6	140.456	-5.51106
K 766.491	-0.7837	ppb	0.6499	82.9	480.503	-0.78370
Mg 279.078	-4.7963	ppb	1.4292	29.8	84.5427	-4.79633
Mn 257.610	0.1126	ppb	0.0047	4.1	75.1275	0.11258
Mo 202.032	0.7413	ppb	0.1627	22.0	34.2434	0.74128
Na 330.237	-393.616	ppb	66.5116	16.9	149.823	-393.61591
Ni 231.604	1.1274	ppb	0.4060	36.0	-3.4412	1.12735
Pb 220.353	-1.7323	ppb	0.3400	19.6	56.8842	-1.73228
Sb 206.834	-5.5288	ppb	0.1335	2.4	30.8755	-5.52884
Se 196.026	-6.0484	ppb	3.8331	63.4	-14.5838	-6.04844
Sn 189.925	1.2275	ppb	0.9888	80.6	-28.2913	1.22746
Sr 216.596	0.0842	ppb	0.0766	91.0	60.7787	0.08423
Ti 334.941	0.0134	ppb	0.0266	198.2	9.5068	0.01343
Tl 190.794	2.3782	ppb	0.8359	35.1	-46.8078	2.37823
V 292.401	0.4079	ppb	0.1448	35.5	-13.2453	0.40786
Zn 206.200	0.4161	ppb	0.7928	190.5	2.9069	0.41610

680-115692-a-11-b (Samp)      8/20/2015, 2:46:56 AM      Rack 3, Tube 27  
 Weight: 1      Volume: 1      Dilution: 1

Label	Replicates Concentration		
Ag 328.068	-3.8282u	-4.5206u	-3.4916u
Al 308.215	197579	197570	198406
As 188.980	155.708	149.004	153.017
B 249.678	12.3560u	13.2384u	13.4122u
Ba 389.178	1744.14	1741.75	1749.97
Be 313.042	8.3583	8.3642	8.3865
Ca 370.602	37711	37720	37790
Cd 226.502	-0.3182	-0.5612	-0.2954
Co 228.615	170.519	170.220	169.472
Cr 267.716	335.064	335.589	335.676
Cu 324.754	217.814	220.966	212.839
Fe 271.441	296979	297087	297569
K 766.491	7660.97	7649.49	7676.96
Mg 279.078	8232.74	8228.57	8250.25
Mn 257.610	29911.2x	29890.3x	30016.8x
Mo 202.032	19.4357	19.5746	19.3564
Na 330.237	-612.455u	-502.857u	-311.879u

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Label	Replicates Concentration		
Ni 231.604	130.353	128.823	128.104
Pb 220.353	1117.95	1116.63	1118.29
Sb 206.834	-14.8664u	-3.5895u	-10.1710u
Se 196.026	10.3304	20.9905	12.3613
Sn 189.925	41.3932	44.7030	40.3808
Sr 216.596	232.608	232.838	231.848
Ti 334.941	2038.70	2042.85	2049.33
Tl 190.794	21.2259	22.1982	21.1392
V 292.401	583.685	583.694	585.471
Zn 206.200	960.571	960.345	963.407

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-3.9468b	ppb	0.5247	13.3	-252.866
Al 308.215	197852b	ppb	479.579	0.2	1683384
As 188.980	152.576b	ppb	3.3736	2.2	164.502
B 249.678	13.0022b	ppb	0.5663	4.4	-445.879
Ba 389.178	1745.29b	ppb	4.2301	0.2	57719.5
Be 313.042	8.3696b	ppb	0.0148	0.2	21723.2
Ca 370.602	37740b	ppb	43.23	0.1	204377
Cd 226.502	-0.3916b	ppb	0.1473	37.6	1819.27
Co 228.615	170.071b	ppb	0.5392	0.3	3352.08
Cr 267.716	335.443b	ppb	0.3310	0.1	27513.6
Cu 324.754	217.207b	ppb	4.0973	1.9	15098.7
Fe 271.441	297212b	ppb	314.188	0.1	802679
K 766.491	7662.47b	ppb	13.7947	0.2	474201
Mg 279.078	8237.19b	ppb	11.5033	0.1	42045.8
Mn 257.610	29939.4xb	ppb	67.7990	0.2	10151732
Mo 202.032	19.4555b	ppb	0.1104	0.6	184.511
Na 330.237	-475.730b	ppb	152.113	32.0	19.9980
Ni 231.604	129.093b	ppb	1.1485	0.9	710.503
Pb 220.353	1117.62b	ppb	0.8766	0.1	3747.47
Sb 206.834	-9.5423b	ppb	5.6646	59.4	23.1645
Se 196.026	14.5608b	ppb	5.6602	38.9	10.8183
Sn 189.925	42.1590b	ppb	2.2606	5.4	38.0644
Sr 216.596	232.431b	ppb	0.5184	0.2	6268.18
Ti 334.941	2043.63b	ppb	5.3542	0.3	675419
Tl 190.794	21.5211b	ppb	0.5880	2.7	-28.9146
V 292.401	584.284b	ppb	1.0283	0.2	22348.9
Zn 206.200	961.441b	ppb	1.7063	0.2	2884.17

680-115692-a-17-b (Samp)      8/20/2015, 2:51:33 AM      Rack 3, Tube 28  
 Weight: 1      Volume: 1      Dilution: 1

Label	Replicates Concentration		
Ag 328.068	-3.7181u	-4.3171u	-4.0394u
Al 308.215	190505	191375	189956
As 188.980	126.179	130.141	122.461
B 249.678	0.7661u	-0.8223u	-0.1600u
Ba 389.178	908.772	913.456	908.387
Be 313.042	6.1715	6.1946	6.1470
Ca 370.602	17079	17170	17047
Cd 226.502	-2.0274	-2.1537	-2.4555
Co 228.615	139.156	141.117	138.936
Cr 267.716	357.786	360.496	356.978

E08192015.wvq. All Data Report 8/20/2015, 3:03:52 PM

Label	Replicates	Concentration	
Cu 324.754	128.627	131.451	129.132
Fe 271.441	315072	317655	313799
K 766.491	6026.23	6081.57	5988.82
Mg 279.078	5412.07	5449.17	5394.08
Mn 257.610	19422.3	19557.7	19334.6
Mo 202.032	11.5699	10.9678	11.6442
Na 330.237	-476.401u	-462.491u	-417.989u
Ni 231.604	103.488	102.076	105.272
Pb 220.353	491.417	496.458	490.205
Sb 206.834	-19.1143u	-13.4579u	-8.2781u
Se 196.026	8.2282	12.5942	0.4699
Sn 189.925	35.0077	29.1242	30.3679
Sr 216.596	103.873	104.216	103.864
Ti 334.941	1630.27	1642.88	1628.44
Tl 190.794	14.0423u	17.0607	17.9167
V 292.401	601.236	604.860	598.453
Zn 206.200	481.695	484.037	481.869

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-4.0249	ppb	0.2998	7.4	-319.539
Al 308.215	190612	ppb	715.611	0.4	1621821
As 188.980	126.260	ppb	3.8406	3.0	133.158
B 249.678	-0.0721	ppb	0.7979	1106.8	-747.481
Ba 389.178	910.205	ppb	2.8219	0.3	30133.4
Be 313.042	6.1711	ppb	0.0238	0.4	15844.4
Ca 370.602	17099	ppb	63.92	0.4	89084
Cd 226.502	-2.2122	ppb	0.2199	9.9	1768.99
Co 228.615	139.736	ppb	1.2011	0.9	2737.67
Cr 267.716	358.420	ppb	1.8428	0.5	29301.5
Cu 324.754	129.737	ppb	1.5058	1.2	9159.24
Fe 271.441	315508	ppb	1964.65	0.6	852075
K 766.491	6032.21	ppb	46.6626	0.8	373423
Mg 279.078	5418.44	ppb	28.0907	0.5	27661.7
Mn 257.610	19438.2	ppb	112.373	0.6	6591590
Mo 202.032	11.3940	ppb	0.3710	3.3	110.309
Na 330.237	-452.293	ppb	30.5122	6.7	15.1607
Ni 231.604	103.612	ppb	1.6018	1.5	575.663
Pb 220.353	492.694	ppb	3.3161	0.7	1717.09
Sb 206.834	-13.6168	ppb	5.4198	39.8	16.5408
Se 196.026	7.0974	ppb	6.1407	86.5	0.7940
Sn 189.925	31.4999	ppb	3.1008	9.8	20.7842
Sr 216.596	103.984	ppb	0.2010	0.2	3307.06
Ti 334.941	1633.86	ppb	7.8622	0.5	540003
Tl 190.794	16.3399	ppb	2.0353	12.5	-50.4764
V 292.401	601.516	ppb	3.2126	0.5	23005.6
Zn 206.200	482.534	ppb	1.3050	0.3	1446.78

680-115692-a-16-b (Samp)      8/20/2015, 2:56:09 AM      Rack 3, Tube 29  
 Weight: 1      Volume: 1      Dilution: 1

Label	Replicates	Concentration	
Ag 328.068	-4.4855u	-4.3966u	-4.4308u
Al 308.215	197085	196920	197394
As 188.980	176.852	176.775	176.290

Label	Replicates Concentration			
B 249.678	-12.5957u	-12.5611u	-12.0812u	
Ba 389.178	1024.54	1021.59	1022.08	
Be 313.042	8.5388	8.4791	8.5262	
Ca 370.602	17898	17849	17948	
Cd 226.502	-3.9363	-4.0422	-3.8240	
Co 228.615	153.018	157.792	155.537	
Cr 267.716	1080.82	1078.31	1083.22	
Cu 324.754	125.721	122.228	118.719	
Fe 271.441	483406	481214	482933	
K 766.491	5573.84	5558.63	5553.76	
Mg 279.078	5916.39	5904.00	5928.61	
Mn 257.610	22661.2	22567.9	22673.6	
Mo 202.032	15.0463	15.0337	14.9724	
Na 330.237	-889.256u	-862.768u	-628.641u	
Ni 231.604	106.642	104.812	102.978	
Pb 220.353	517.562	517.519	517.351	
Sb 206.834	-20.2411u	-14.3603u	-22.1335u	
Se 196.026	7.9076	15.9134	7.2611	
Sn 189.925	24.6647	25.7603	24.9606	
Sr 216.596	67.2231	66.3755	68.1002	
Ti 334.941	1709.69	1701.57	1705.02	
Tl 190.794	23.5149u	31.4945	27.8907	
V 292.401	1031.64	1029.51	1031.57	
Zn 206.200	486.568	487.050	486.480	

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-4.4376	ppb	0.0448	1.0	-369.602
Al 308.215	197133	ppb	240.196	0.1	1677356
As 188.980	176.639	ppb	0.3045	0.2	190.832
B 249.678	-12.4127	ppb	0.2876	2.3	-1431.66
Ba 389.178	1022.74	ppb	1.5827	0.2	33989.4
Be 313.042	8.5147	ppb	0.0314	0.4	22137.7
Ca 370.602	17898	ppb	49.93	0.3	89671
Cd 226.502	-3.9342	ppb	0.1092	2.8	2612.30
Co 228.615	155.449	ppb	2.3879	1.5	3046.96
Cr 267.716	1080.78	ppb	2.4549	0.2	87818.1
Cu 324.754	122.223	ppb	3.5007	2.9	8709.39
Fe 271.441	482518	ppb	1153.96	0.2	1303018
K 766.491	5562.08	ppb	10.4752	0.2	344361
Mg 279.078	5916.34	ppb	12.3077	0.2	30145.1
Mn 257.610	22634.2	ppb	57.8080	0.3	7675909
Mo 202.032	15.0175	ppb	0.0395	0.3	132.149
Na 330.237	-793.555	ppb	143.432	18.1	-81.6561
Ni 231.604	104.811	ppb	1.8320	1.7	597.815
Pb 220.353	517.477	ppb	0.1113	0.0	1827.31
Sb 206.834	-18.9116	ppb	4.0535	21.4	15.9902
Se 196.026	10.3607	ppb	4.8196	46.5	3.3039
Sn 189.925	25.1286	ppb	0.5668	2.3	10.4543
Sr 216.596	67.2329	ppb	0.8624	1.3	2878.49
Ti 334.941	1705.43	ppb	4.0756	0.2	563676
Tl 190.794	27.6334	ppb	3.9960	14.5	-51.2748
V 292.401	1030.91	ppb	1.2124	0.1	39410.3
Zn 206.200	486.699	ppb	0.3069	0.1	1453.33

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680-115692-a-20-b (Samp)	8/20/2015, 3:00:46 AM	Rack 3, Tube 30
Weight: 1	Volume: 1	Dilution: 1
Label	Replicates	Concentration
Ag 328.068	-3.3969u	-3.8936u -3.4116u
Al 308.215	175675	174451 176256
As 188.980	152.051	141.474 146.835
B 249.678	-3.8257u	-3.3612u -2.3961u
Ba 389.178	1333.96	1321.05 1338.61
Be 313.042	7.4726	7.4119 7.5042
Ca 370.602	28754	28509 28735
Cd 226.502	-1.0395	-1.2858 -0.7883
Co 228.615	126.652	123.871 126.568
Cr 267.716	513.750	508.201 513.824
Cu 324.754	204.424	208.770 203.035
Fe 271.441	354478	351817 356538
K 766.491	6909.88	6858.96 6917.79
Mg 279.078	5963.06	5891.33 5963.60
Mn 257.610	21330.6	20953.5 21339.5
Mo 202.032	16.7612	15.5752 15.8540
Na 330.237	-575.663u	-695.888u -603.058u
Ni 231.604	102.612	103.265 103.763
Pb 220.353	999.480	986.816 998.212
Sb 206.834	-11.2922u	-10.9771u -12.5808u
Se 196.026	12.0926	18.3890 6.4253
Sn 189.925	38.6820	36.5872 38.4677
Sr 216.596	93.6388	93.4321 93.6963
Ti 334.941	2071.21	2056.06 2074.88
Tl 190.794	26.4841	24.5949 20.4370
V 292.401	643.024	637.122 650.429
Zn 206.200	1030.77	1016.85 1043.99

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-3.5673	ppb	0.2826	7.9	-272.948
Al 308.215	175461	ppb	921.503	0.5	1492984
As 188.980	146.786	ppb	5.2887	3.6	156.993
B 249.678	-3.1943	ppb	0.7293	22.8	-911.156
Ba 389.178	1331.21	ppb	9.0984	0.7	44077.6
Be 313.042	7.4629	ppb	0.0469	0.6	19300.7
Ca 370.602	28666	ppb	136.1	0.5	152475
Cd 226.502	-1.0379	ppb	0.2488	24.0	2101.79
Co 228.615	125.697	ppb	1.5816	1.3	2474.72
Cr 267.716	511.925	ppb	3.2257	0.6	41747.5
Cu 324.754	205.410	ppb	2.9919	1.5	14318.6
Fe 271.441	354277	ppb	2366.80	0.7	956751
K 766.491	6895.54	ppb	31.9287	0.5	426792
Mg 279.078	5939.33	ppb	41.5723	0.7	30338.8
Mn 257.610	21207.9	ppb	220.314	1.0	7191746
Mo 202.032	16.0635	ppb	0.6201	3.9	150.152
Na 330.237	-624.870	ppb	63.0105	10.1	-15.8553
Ni 231.604	103.213	ppb	0.5769	0.6	577.234
Pb 220.353	994.836	ppb	6.9742	0.7	3355.37
Sb 206.834	-11.6167	ppb	0.8497	7.3	21.4622
Se 196.026	12.3023	ppb	5.9846	48.6	5.2343
Sn 189.925	37.9123	ppb	1.1526	3.0	31.1795
Sr 216.596	93.5890	ppb	0.1389	0.1	31.63.84

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Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ti 334.941	2067.38	ppb	9.9781	0.5	683271
Tl 190.794	23.8387	ppb	3.0937	13.0	-40.9812
V 292.401	643.525	ppb	6.6678	1.0	24608.8
Zn 206.200	1030.54	ppb	13.5696	1.3	3090.09

680-115692-a-2-b (Samp)      8/20/2015, 3:05:23 AM      Rack 3, Tube 31  
 Weight: 1      Volume: 1      Dilution: 1

Label	Replicates	Concentration				
Ag 328.068	-3.1349u	-3.4589u	-3.7312u			
Al 308.215	154683	154756	154913			
As 188.980	259.012	267.764	261.488			
B 249.678	-19.3285u	-20.8972u	-18.6317u			
Ba 389.178	5807.90	5810.85	5825.40			
Be 313.042	12.3029	12.3149	12.3200			
Ca 370.602	136435	136734	137009			
Cd 226.502	-2.0600	-2.2097	-2.2495			
Co 228.615	229.157	231.435	232.395			
Cr 267.716	724.742	726.637	725.201			
Cu 324.754	185.715	183.132	178.665			
Fe 271.441	620944	621303	623692			
K 766.491	3352.40	3362.68	3347.88			
Mg 279.078	52616.3	52670.3	52461.4			
Mn 257.610	46484.6x	46602.2x	46626.0x			
Mo 202.032	26.5070	27.2756	26.6462			
Na 330.237	-814.445u	-931.762u	-842.742u			
Ni 231.604	94.9883	93.3493	93.2602			
Pb 220.353	876.339	873.599	872.369			
Sb 206.834	-23.7491u	-21.2524u	-20.3228u			
Se 196.026	35.6591	24.1095	26.0770			
Sn 189.925	30.8553	33.3690	34.3955			
Sr 216.596	178.494	178.289	178.770			
Ti 334.941	1785.02	1789.81	1792.82			
Tl 190.794	36.1340	37.4357	43.9189			
V 292.401	1029.28	1032.84	1029.97			
Zn 206.200	800.935	797.007	799.540			

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-3.4417b	ppb	0.2985	8.7	-168.994
Al 308.215	154784b	ppb	117.692	0.1	1317229
As 188.980	262.755b	ppb	4.5118	1.7	291.106
B 249.678	-19.6192b	ppb	1.1604	5.9	-1942.69
Ba 389.178	5814.72b	ppb	9.3732	0.2	192559
Be 313.042	12.3126b	ppb	0.0088	0.1	32317.5
Ca 370.602	136726b	ppb	286.7	0.2	743726
Cd 226.502	-2.1731b	ppb	0.0999	4.6	3598.86
Co 228.615	230.996b	ppb	1.6630	0.7	4535.32
Cr 267.716	725.527b	ppb	0.9884	0.1	59308.8
Cu 324.754	182.504b	ppb	3.5665	2.0	12863.3
Fe 271.441	621980b	ppb	1493.71	0.2	1679582
K 766.491	3354.32b	ppb	7.5846	0.2	207883
Mg 279.078	52582.7b	ppb	108.436	0.2	274383
Mn 257.610	46570.9xb	ppb	75.7363	0.2	15792253
Mo 202.032	26.8096b	ppb	0.4095	1.5	230.350

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Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Na 330.237	-862.983b	ppb	61.2219	7.1	-144.824
Ni 231.604	93.8660b	ppb	0.9730	1.0	551.912
Pb 220.353	874.102b	ppb	2.0325	0.2	3019.94
Sb 206.834	-21.7748b	ppb	1.7719	8.1	2.3137
Se 196.026	28.6152b	ppb	6.1790	21.6	25.7362
Sn 189.925	32.8733b	ppb	1.8214	5.5	23.0092
Sr 216.596	178.518b	ppb	0.2414	0.1	5847.40
Ti 334.941	1789.22b	ppb	3.9379	0.2	591475
Tl 190.794	39.1629b	ppb	4.1699	10.6	-30.4061
V 292.401	1030.70b	ppb	1.8910	0.2	39423.5
Zn 206.200	799.161b	ppb	1.9915	0.2	2393.95

680-115692-a-19-b (Samp)

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Rack 3, Tube 32

Weight: 1

Volume: 1

Dilution: 1

Label	Replicates	Concentration			
Ag 328.068	-0.7027u	-0.2465u	-0.3176u		
Al 308.215	68134.3	71594.1	69418.1		
As 188.980	31.9562	29.2169	27.8025		
B 249.678	2.7998u	2.8951u	1.8024u		
Ba 389.178	224.283	235.381	227.908		
Be 313.042	1.8311	1.9121	1.8621		
Ca 370.602	4148	4383	4253		
Cd 226.502	0.3940	0.7294	0.2359		
Co 228.615	18.5762	19.1530	18.9024		
Cr 267.716	66.5771	70.1563	67.9760		
Cu 324.754	46.4350	44.7579	43.7451		
Fe 271.441	63501.3	66721.1	64830.5		
K 766.491	2212.69	2311.08	2243.09		
Mg 279.078	2494.30	2622.57	2549.26		
Mn 257.610	1903.36	1999.61	1940.65		
Mo 202.032	4.4053	3.8425	3.6624		
Na 330.237	-219.659u	-257.049u	-399.794u		
Ni 231.604	35.2544	38.2176	35.4247		
Pb 220.353	115.349	123.891	118.205		
Sb 206.834	-6.4809u	-12.2464u	-3.7157u		
Se 196.026	4.6774	-7.1335u	6.9002		
Sn 189.925	13.9248	16.8927	15.6013		
Sr 216.596	13.7537	15.3533	14.5835		
Ti 334.941	692.831	726.218	704.470		
Tl 190.794	4.8842	4.5956	3.6815u		
V 292.401	117.242	123.408	119.923		
Zn 206.200	417.735	439.213	427.387		

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.4223	ppb	0.2455	58.1	-29.5478
Al 308.215	69715.5	ppb	1748.94	2.5	593592
As 188.980	29.6586	ppb	2.1118	7.1	21.7595
B 249.678	2.4991	ppb	0.6052	24.2	-29.5990
Ba 389.178	229.191	ppb	5.6592	2.5	7419.64
Be 313.042	1.8684	ppb	0.0409	2.2	4299.61
Ca 370.602	4261	ppb	118.0	2.8	22618
Cd 226.502	0.4531	ppb	0.2520	55.6	515.492
Co 228.615	18.8772	ppb	0.2892	1.5	324.845

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Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Cr 267.716	68.2365	ppb	1.8038	2.6	5604.52
Cu 324.754	44.9793	ppb	1.3586	3.0	3303.82
Fe 271.441	65017.7	ppb	1618.00	2.5	175711
K 766.491	2255.62	ppb	50.3800	2.2	139965
Mg 279.078	2555.38	ppb	64.3548	2.5	13406.0
Mn 257.610	1947.87	ppb	48.5296	2.5	660746
Mo 202.032	3.9701	ppb	0.3876	9.8	59.2893
Na 330.237	-292.167	ppb	95.0636	32.5	131.093
Ni 231.604	36.2989	ppb	1.6638	4.6	191.342
Pb 220.353	119.148	ppb	4.3485	3.6	458.569
Sb 206.834	-7.4810	ppb	4.3524	58.2	27.3451
Se 196.026	1.4814	ppb	7.5430	509.2	-8.4640
Sn 189.925	15.4729	ppb	1.4881	9.6	-5.1972
Sr 216.596	14.5635	ppb	0.8000	5.5	566.597
Ti 334.941	707.840	ppb	16.9468	2.4	233939
Tl 190.794	4.3871	ppb	0.6279	14.3	-51.0080
V 292.401	120.191	ppb	3.0914	2.6	4577.36
Zn 206.200	428.112	ppb	10.7570	2.5	1285.86

680-115692-a-13-b (Samp)

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Rack 3, Tube 33

Weight: 1

Volume: 1

Dilution: 1

Label	Replicates	Concentration				
Ag 328.068	-1.9554u	-1.7985u	-2.2082u			
Al 308.215	141843	141581	141430			
As 188.980	144.385	144.745	142.333			
B 249.678	3.2093u	3.6314u	3.3549u			
Ba 389.178	833.648	834.357	835.227			
Be 313.042	9.0282	9.0360	9.0159			
Ca 370.602	30110	30164	30087			
Cd 226.502	-1.4597	-1.4072	-1.2882			
Co 228.615	67.0681	66.7896	68.6608			
Cr 267.716	298.793	298.865	298.333			
Cu 324.754	83.2926	76.6202	78.7336			
Fe 271.441	272294	272384	272013			
K 766.491	4249.65	4255.79	4217.89			
Mg 279.078	11676.6	11678.9	11650.7			
Mn 257.610	6736.76	6755.61	6723.03			
Mo 202.032	8.2405	6.9128	7.8776			
Na 330.237	-335.738u	-460.731u	-332.890u			
Ni 231.604	69.6952	71.8809	69.9469			
Pb 220.353	370.230	367.250	364.299			
Sb 206.834	-12.3337u	-8.1882u	-12.4759u			
Se 196.026	4.8374	8.9253	11.0530			
Sn 189.925	26.2687	24.6448	25.6159			
Sr 216.596	124.893	124.752	124.618			
Ti 334.941	756.264	755.422	755.303			
Tl 190.794	8.7567u	14.8210u	11.5321u			
V 292.401	477.499	479.101	477.301			
Zn 206.200	502.902	504.137	499.825			

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-1.9874	ppb	0.2067	10.4	-192.936
Al 308.215	141618	ppb	209.013	0.1	1205143

E08192015.wvq. All Data Report 8/20/2015, 3:03:52 PM

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
As 188.980	143.821	ppb	1.3011	0.9	154.439
B 249.678	3.3985	ppb	0.2144	6.3	-564.992
Ba 389.178	834.411	ppb	0.7912	0.1	27608.9
Be 313.042	9.0267	ppb	0.0101	0.1	23472.5
Ca 370.602	30120	ppb	39.64	0.1	160671
Cd 226.502	-1.3850	ppb	0.0879	6.3	1588.31
Co 228.615	67.5062	ppb	1.0096	1.5	1280.21
Cr 267.716	298.664	ppb	0.2885	0.1	24356.6
Cu 324.754	79.5488	ppb	3.4101	4.3	5731.78
Fe 271.441	272231	ppb	193.562	0.1	735208
K 766.491	4241.11	ppb	20.3458	0.5	262702
Mg 279.078	11668.7	ppb	15.6624	0.1	61039.6
Mn 257.610	6738.47	ppb	16.3543	0.2	2285949
Mo 202.032	7.6770	ppb	0.6862	8.9	79.4941
Na 330.237	-376.453	ppb	73.0006	19.4	39.2233
Ni 231.604	70.5077	ppb	1.1959	1.7	394.276
Pb 220.353	367.260	ppb	2.9655	0.8	1299.37
Sb 206.834	-10.9993	ppb	2.4355	22.1	20.8833
Se 196.026	8.2719	ppb	3.1589	38.2	-2.8968
Sn 189.925	25.5098	ppb	0.8171	3.2	11.0734
Sr 216.596	124.754	ppb	0.1378	0.1	3683.57
Ti 334.941	755.663	ppb	0.5239	0.1	249793
Tl 190.794	11.7033	ppb	3.0357	25.9	-64.0467
V 292.401	477.967	ppb	0.9872	0.2	18268.5
Zn 206.200	502.288	ppb	2.2208	0.4	1506.56

680-115692-a-12-b (Samp)      8/20/2015, 3:19:12 AM      Rack 3, Tube 34  
 Weight: 1      Volume: 1      Dilution: 1

Label	Replicates	Concentration
Ag 328.068	-1.3128u	-1.6832u
Al 308.215	197253	197645
As 188.980	168.205	171.087
B 249.678	8.7224u	8.4115u
Ba 389.178	1558.78	1584.97
Be 313.042	7.8340	7.8556
Ca 370.602	42511	42801
Cd 226.502	-0.5424	-0.5146
Co 228.615	122.041	121.705
Cr 267.716	517.831	519.801
Cu 324.754	260.733	254.971
Fe 271.441	361095	361872
K 766.491	6758.40	6770.19
Mg 279.078	6660.16	6663.42
Mn 257.610	15084.4	14455.7
Mo 202.032	21.7274	21.4413
Na 330.237	-500.088u	-533.762u
Ni 231.604	133.653	132.629
Pb 220.353	1315.09	1316.80
Sb 206.834	-15.2732u	-10.0127u
Se 196.026	3.2879	9.2621
Sn 189.925	57.4692	52.5503
Sr 216.596	238.950	240.018
Ti 334.941	1801.02	1809.67
		1799.01

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Label	Replicates Concentration			
Tl 190.794	20.0740u	14.8050u	14.2863u	
V 292.401	649.462	654.901	647.924	
Zn 206.200	1810.38	1808.38	1807.50	

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-1.5507	ppb	0.2064	13.3	-124.910
Al 308.215	196940	ppb	903.457	0.5	1675649
As 188.980	171.617	ppb	3.7055	2.2	186.294
B 249.678	8.8668	ppb	0.5420	6.1	-695.540
Ba 389.178	1573.14	ppb	13.2784	0.8	52079.3
Be 313.042	7.8418	ppb	0.0120	0.2	20324.2
Ca 370.602	42609	ppb	166.6	0.4	228773
Cd 226.502	-0.5431	ppb	0.0288	5.3	2186.03
Co 228.615	120.804	ppb	1.8587	1.5	2367.95
Cr 267.716	518.258	ppb	1.3793	0.3	42215.6
Cu 324.754	260.099	ppb	4.8418	1.9	18039.1
Fe 271.441	360958	ppb	989.601	0.3	974789
K 766.491	6752.95	ppb	20.5124	0.3	417977
Mg 279.078	6649.39	ppb	21.5342	0.3	34306.8
Mn 257.610	14852.4	ppb	345.171	2.3	5037119
Mo 202.032	21.6836	ppb	0.2236	1.0	200.654
Na 330.237	-452.611	ppb	112.661	24.9	-5.1722
Ni 231.604	133.345	ppb	0.6218	0.5	739.535
Pb 220.353	1314.95	ppb	1.9184	0.1	4393.17
Sb 206.834	-12.4746	ppb	2.6464	21.2	19.9117
Se 196.026	9.6236	ppb	6.5240	67.8	0.6313
Sn 189.925	54.9295	ppb	2.4633	4.5	58.7673
Sr 216.596	239.034	ppb	0.9456	0.4	6587.51
Ti 334.941	1803.23	ppb	5.6600	0.3	595984
Tl 190.794	16.3884	ppb	3.2023	19.5	-61.3160
V 292.401	650.763	ppb	3.6658	0.6	24881.3
Zn 206.200	1808.75	ppb	1.4758	0.1	5425.45

680-115692-a-10-b (Samp)      8/20/2015, 3:23:49 AM      Rack 3, Tube 35  
 Weight: 1      Volume: 1      Dilution: 1

Label	Replicates Concentration			
Ag 328.068	-2.3104u	-1.7162u	-2.0347u	
Al 308.215	160927	160681	160739	
As 188.980	169.277	162.022	164.820	
B 249.678	5.4344u	4.7694u	4.1977u	
Ba 389.178	1074.79	1073.34	1071.36	
Be 313.042	6.4574	6.4535	6.4532	
Ca 370.602	29249	29234	29261	
Cd 226.502	-1.3724	-1.3935	-1.6396	
Co 228.615	91.8055	91.6834	92.5559	
Cr 267.716	361.699	361.990	362.214	
Cu 324.754	147.443	152.040	149.890	
Fe 271.441	307547	307002	307302	
K 766.491	5407.06	5398.94	5391.39	
Mg 279.078	5995.20	5989.02	5994.68	
Mn 257.610	13594.0	12939.4	13033.1	
Mo 202.032	15.9988	15.6866	16.2941	
Na 330.237	-594.472u	-447.820u	-610.343u	

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Label	Replicates	Concentration				
Ni 231.604	91.6242	88.7100	88.7496			
Pb 220.353	750.019	761.413	757.555			
Sb 206.834	-23.4168u	-15.1405u	-7.0011u			
Se 196.026	11.6843	6.4212	12.6653			
Sn 189.925	34.5592	31.3514	39.4903			
Sr 216.596	163.813	164.726	165.953			
Ti 334.941	1867.10	1867.15	1870.69			
Tl 190.794	19.6409	14.4278u	16.0881u			
V 292.401	557.950	556.617	556.876			
Zn 206.200	647.974	651.056	647.895			

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-2.0204	ppb	0.2974	14.7	-166.512
Al 308.215	160782	ppb	128.785	0.1	1368137
As 188.980	165.373	ppb	3.6589	2.2	179.529
B 249.678	4.8005	ppb	0.6189	12.9	-631.430
Ba 389.178	1073.16	ppb	1.7255	0.2	35513.0
Be 313.042	6.4547	ppb	0.0023	0.0	16602.2
Ca 370.602	29248	ppb	13.33	0.0	156267
Cd 226.502	-1.4685	ppb	0.1486	10.1	1784.88
Co 228.615	92.0149	ppb	0.4725	0.5	1803.29
Cr 267.716	361.968	ppb	0.2582	0.1	29540.8
Cu 324.754	149.791	ppb	2.2998	1.5	10520.1
Fe 271.441	307284	ppb	272.634	0.1	829859
K 766.491	5399.13	ppb	7.8342	0.1	334288
Mg 279.078	5992.97	ppb	3.4260	0.1	30950.7
Mn 257.610	13188.8	ppb	353.985	2.7	4472879
Mo 202.032	15.9932	ppb	0.3038	1.9	152.554
Na 330.237	-550.878	ppb	89.6030	16.3	10.0330
Ni 231.604	89.6946	ppb	1.6712	1.9	500.414
Pb 220.353	756.329	ppb	5.7950	0.8	2569.96
Sb 206.834	-15.1861	ppb	8.2079	54.0	14.0867
Se 196.026	10.2569	ppb	3.3579	32.7	0.8869
Sn 189.925	35.1337	ppb	4.0997	11.7	26.6751
Sr 216.596	164.831	ppb	1.0741	0.7	4712.40
Ti 334.941	1868.31	ppb	2.0586	0.1	617479
Tl 190.794	16.7189	ppb	2.6632	15.9	-54.2592
V 292.401	557.148	ppb	0.7068	0.1	21307.1
Zn 206.200	648.975	ppb	1.8023	0.3	1946.24

680-115692-a-9-b (Samp)      8/20/2015, 3:28:26 AM      Rack 3, Tube 36  
 Weight: 1      Volume: 1      Dilution: 1

Label	Replicates	Concentration				
Ag 328.068	-1.8193u	-1.4126u	-2.1882u			
Al 308.215	146758	144319	144279			
As 188.980	103.398	101.846	92.9840			
B 249.678	8.0666u	8.8102u	9.8827u			
Ba 389.178	847.691	836.616	836.970			
Be 313.042	9.4664	9.3017	9.2817			
Ca 370.602	60868	59441	59331			
Cd 226.502	1.5362	1.2242	1.1726			
Co 228.615	57.1005	57.4005	57.2913			
Cr 267.716	346.966	340.703	340.243			

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Label	Replicates	Concentration	
Cu 324.754	143.132	149.944	141.278
Fe 271.441	203098	200401	199842
K 766.491	5394.60	5317.61	5314.38
Mg 279.078	14760.6	14484.9	14453.5
Mn 257.610	6360.44	6250.29	6252.54
Mo 202.032	7.2678	6.7179	6.3358
Na 330.237	-97.3059u	-181.315u	-247.267u
Ni 231.604	80.1931	79.0818	79.3019
Pb 220.353	686.806	677.598	678.823
Sb 206.834	-3.5986u	-1.7447u	-1.3787u
Se 196.026	9.9123	15.7924	10.5344
Sn 189.925	40.5734	37.7620	35.5539
Sr 216.596	223.694	221.053	219.801
Ti 334.941	971.865	957.526	954.731
Tl 190.794	7.4634u	12.1152u	10.8058u
V 292.401	378.857	373.626	373.709
Zn 206.200	933.891	917.429	916.004

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-1.8067	ppb	0.3879	21.5	-168.799
Al 308.215	145119	ppb	1420.03	1.0	1234889
As 188.980	99.4094	ppb	5.6184	5.7	102.714
B 249.678	8.9198	ppb	0.9130	10.2	-268.429
Ba 389.178	840.426	ppb	6.2947	0.7	27756.7
Be 313.042	9.3499	ppb	0.1014	1.1	24344.3
Ca 370.602	59880	ppb	857.1	1.4	326886
Cd 226.502	1.3110	ppb	0.1967	15.0	1401.59
Co 228.615	57.2641	ppb	0.1518	0.3	1088.23
Cr 267.716	342.638	ppb	3.7560	1.1	27884.8
Cu 324.754	144.785	ppb	4.5636	3.2	10139.5
Fe 271.441	201113	ppb	1740.96	0.9	543186
K 766.491	5342.20	ppb	45.4096	0.9	330768
Mg 279.078	14566.3	ppb	168.967	1.2	76277.4
Mn 257.610	6287.76	ppb	62.9562	1.0	2132853
Mo 202.032	6.7738	ppb	0.4685	6.9	75.8750
Na 330.237	-175.296	ppb	75.1615	42.9	84.5359
Ni 231.604	79.5256	ppb	0.5885	0.7	435.975
Pb 220.353	681.076	ppb	5.0005	0.7	2306.18
Sb 206.834	-2.2407	ppb	1.1902	53.1	37.6331
Se 196.026	12.0797	ppb	3.2303	26.7	0.4313
Sn 189.925	37.9631	ppb	2.5158	6.6	31.2626
Sr 216.596	221.516	ppb	1.9873	0.9	5766.27
Ti 334.941	961.374	ppb	9.1923	1.0	317770
Tl 190.794	10.1281	ppb	2.3988	23.7	-56.7191
V 292.401	375.398	ppb	2.9964	0.8	14338.7
Zn 206.200	922.441	ppb	9.9410	1.1	2767.08

Cont Calib Verif (CCV)      8/20/2015, 3:33:03 AM      Rack 3, Tube 37  
 Weight: 1      Volume: 1      Dilution: 1

Label	Replicates	Concentration	
Ag 328.068	487.466	480.668	488.091
Al 308.215	4665.42	4716.68	4719.16
As 188.980	464.267	478.791	461.539

Label	Replicates	Concentration					
B 249.678	455.409	460.344	461.566				
Ba 389.178	4733.54	4794.09	4796.39				
Be 313.042	472.988	479.487	479.751				
Ca 370.602	5026	5085	5090				
Cd 226.502	474.100	478.886	478.155				
Co 228.615	469.094	473.514	473.412				
Cr 267.716	4879.84	4931.61	4938.64				
Cu 324.754	4779.27	5045.91	4950.72				
Fe 271.441	4659.97	4703.86	4705.25				
K 766.491	9316.26	9457.86	9443.48				
Mg 279.078	4640.88	4680.65	4685.80				
Mn 257.610	4765.26	4816.35	4809.39				
Mo 202.032	482.045	486.424	486.886				
Na 330.237	6348.89	6628.92	6506.59				
Ni 231.604	2346.13	2364.93	2370.82				
Pb 220.353	469.313	476.270	476.004				
Sb 206.834	950.135	960.438	951.634				
Se 196.026	4597.79	4613.95	4605.20				
Sn 189.925	4716.64	4811.55	4837.18				
Sr 216.596	2373.23	2395.54	2397.20				
Ti 334.941	473.064	478.068	478.684				
Tl 190.794	4749.56	4815.39	4795.10				
V 292.401	4707.67	4761.71	4762.16				
Zn 206.200	2358.87	2386.61	2381.33				

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)	QC Value	
Ag 328.068	485.408	ppb	4.1172	0.8	46026.7	97.08163	
Al 308.215	4700.42	ppb	30.3370	0.6	41326.0	94.00838	
As 188.980	468.199	ppb	9.2740	2.0	541.041	93.63976	
B 249.678	459.106	ppb	3.2594	0.7	8976.61	91.82127	
Ba 389.178	4774.68	ppb	35.6418	0.7	157594	95.49352	
Be 313.042	477.409	ppb	3.8306	0.8	1275459	95.48174	
Ca 370.602	5067	ppb	35.59	0.7	28550	101.33645	
Cd 226.502	477.047	ppb	2.5778	0.5	42219.4	95.40937	
Co 228.615	472.007	ppb	2.5233	0.5	9258.37	94.40132	
Cr 267.716	4916.70	ppb	32.1094	0.7	397723	98.33395	
Cu 324.754	4925.30	ppb	135.124	2.7	334999	98.50604	
Fe 271.441	4689.69	ppb	25.7482	0.5	12993.9	93.79390	
K 766.491	9405.87	ppb	77.9336	0.8	581973	94.05866	
Mg 279.078	4669.11	ppb	24.5851	0.5	24444.2	93.38222	
Mn 257.610	4797.00	ppb	27.7060	0.6	1626417	95.93999	
Mo 202.032	485.119	ppb	2.6717	0.6	4415.94	97.02372	
Na 330.237	6494.80	ppb	140.385	2.2	720.079	86.59733Q	
Ni 231.604	2360.63	ppb	12.8951	0.5	12652.1	94.42504	
Pb 220.353	473.862	ppb	3.9418	0.8	1605.43	94.77249	
Sb 206.834	954.069	ppb	5.5664	0.6	1695.58	95.40694	
Se 196.026	4605.65	ppb	8.0887	0.2	3574.72	92.11296	
Sn 189.925	4788.45	ppb	63.5011	1.3	7732.60	95.76909	
Sr 216.596	2388.65	ppb	13.3856	0.6	55913.2	95.54610	
Ti 334.941	476.605	ppb	3.0828	0.6	157516	95.32108	
Tl 190.794	4786.68	ppb	33.7116	0.7	8841.60	95.73367	
V 292.401	4743.85	ppb	31.3294	0.7	181273	94.87695	
Zn 206.200	2375.60	ppb	14.7331	0.6	7090.46	95.02412	

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Cont Calib Blank (CCB)		8/20/2015, 3:37:40 AM		Rack 3, Tube 38		
Weight: 1		Volume: 1		Dilution: 1		
Label	Replicates	Concentration				
Ag 328.068	-0.4832u	-0.0465u	0.9601			
Al 308.215	-16.9976u	-19.2512u	-19.2871u			
As 188.980	0.3265	1.7353	-4.7334u			
B 249.678	3.5927	3.2089	2.9654			
Ba 389.178	1.1772	1.0305	1.5630			
Be 313.042	0.0272	0.0228	0.0349			
Ca 370.602	9.700	9.503	2.886			
Cd 226.502	0.4357	0.3578	0.3270			
Co 228.615	1.3268	0.6029	0.7574			
Cr 267.716	-0.0338u	-0.3093u	-0.2061u			
Cu 324.754	0.1668	0.2258	-0.5798u			
Fe 271.441	-1.2147u	-7.3221u	-4.0899u			
K 766.491	-0.4989u	-0.7303u	-0.8483u			
Mg 279.078	-3.8583u	-4.2927u	-2.6240u			
Mn 257.610	0.1087	0.0618	0.0448			
Mo 202.032	0.4873	0.7710	0.3994			
Na 330.237	-105.756u	-346.572u	-92.4972u			
Ni 231.604	1.8957	0.7388	0.2669			
Pb 220.353	-2.0002u	0.3290	-2.7715u			
Sb 206.834	-6.0153u	-2.3391u	-6.5510u			
Se 196.026	4.3025	-4.1700u	0.5104			
Sn 189.925	0.2778	1.0324	1.3794			
Sr 216.596	0.2376	0.1097	-0.2216u			
Ti 334.941	0.0987	0.0991	0.0476			
Tl 190.794	2.7955	-1.1016u	-0.4436u			
V 292.401	0.3585	0.6314	-0.1412u			
Zn 206.200	0.0945	0.0988	0.3255			
Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)	QC Value
Ag 328.068	0.1435	ppb	0.7401	515.9	25.1225	0.14347
Al 308.215	-18.5119	ppb	1.3116	7.1	533.911	-18.51194
As 188.980	-0.8905	ppb	3.4017	382.0	-13.6325	-0.89054
B 249.678	3.2556	ppb	0.3162	9.7	158.473	3.25564
Ba 389.178	1.2569	ppb	0.2751	21.9	-171.202	1.25692
Be 313.042	0.0283	ppb	0.0061	21.7	-635.954	0.02828
Ca 370.602	7.363	ppb	3.878	52.7	5.819	7.36292
Cd 226.502	0.3735	ppb	0.0560	15.0	123.999	0.37350
Co 228.615	0.8957	ppb	0.3813	42.6	-53.7166	0.89573
Cr 267.716	-0.1831	ppb	0.1392	76.1	28.6056	-0.18307
Cu 324.754	-0.0624	ppb	0.4490	719.4	217.457	-0.06241
Fe 271.441	-4.2089	ppb	3.0554	72.6	144.026	-4.20889
K 766.491	-0.6925	ppb	0.1777	25.7	486.141	-0.69249
Mg 279.078	-3.5917	ppb	0.8658	24.1	90.8727	-3.59168
Mn 257.610	0.0718	ppb	0.0331	46.1	61.2899	0.07179
Mo 202.032	0.5526	ppb	0.1942	35.1	32.5341	0.55257
Na 330.237	-181.609	ppb	143.016	78.7	167.533	-181.60857
Ni 231.604	0.9672	ppb	0.8380	86.7	-4.3024	0.96716
Pb 220.353	-1.4809	ppb	1.6142	109.0	57.7001	-1.48091
Sb 206.834	-4.9685	ppb	2.2928	46.1	31.8090	-4.96847
Se 196.026	0.2143	ppb	4.2440	1980.4	-9.7119	0.21430
Sn 189.925	0.8965	ppb	0.5633	62.8	-28.8277	0.89655
Sr 216.596	0.0419	ppb	0.2370	Page 566 of 895	59.7668	0.04187

E08192015.wvq. All Data Report 8/20/2015, 3:03:52 PM

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)	QC Value
Ti 334.941	0.0818	ppb	0.0296	36.2	32.0839	0.08179
Tl 190.794	0.4167	ppb	2.0862	500.6	-50.4422	0.41674
V 292.401	0.2829	ppb	0.3918	138.5	-17.9798	0.28287
Zn 206.200	0.1729	ppb	0.1322	76.4	2.1772	0.17294

680-115692-a-7-b (Samp)      8/20/2015, 3:42:17 AM      Rack 3, Tube 39  
 Weight: 1      Volume: 1      Dilution: 1

Label	Replicates	Concentration				
Ag 328.068	-1.5065u	-1.7214u	-1.8443u			
Al 308.215	190622	190921	191552			
As 188.980	162.569	161.076	166.367			
B 249.678	5.8310u	6.4051u	5.2589u			
Ba 389.178	1505.39	1503.74	1507.79			
Be 313.042	7.9287	7.9040	7.9083			
Ca 370.602	36848	36643	36859			
Cd 226.502	-0.8719	-0.9444	-0.8071			
Co 228.615	129.236	129.453	127.736			
Cr 267.716	457.778	456.760	458.275			
Cu 324.754	207.570	200.419	210.508			
Fe 271.441	343224	341811	343458			
K 766.491	6686.74	6655.08	6688.90			
Mg 279.078	7839.40	7825.26	7861.94			
Mn 257.610	21877.8	21810.4	21939.4			
Mo 202.032	17.1947	16.6745	15.9315			
Na 330.237	-509.021u	-590.948u	-346.149u			
Ni 231.604	123.873	125.427	123.113			
Pb 220.353	1077.06	1077.14	1091.61			
Sb 206.834	-11.8694u	-15.2005u	-6.3233u			
Se 196.026	20.8138	18.5171	17.2812			
Sn 189.925	63.5195	63.3801	64.5843			
Sr 216.596	200.460	200.022	202.114			
Ti 334.941	1944.63	1938.84	1947.34			
Tl 190.794	18.6829	17.9536	19.2242			
V 292.401	652.641	651.995	653.512			
Zn 206.200	1037.84	1037.16	1045.95			

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-1.6907	ppb	0.1709	10.1	-92.7683
Al 308.215	191032	ppb	475.003	0.2	1625401
As 188.980	163.337	ppb	2.7277	1.7	176.708
B 249.678	5.8317	ppb	0.5731	9.8	-706.429
Ba 389.178	1505.64	ppb	2.0377	0.1	49837.0
Be 313.042	7.9136	ppb	0.0132	0.2	20511.7
Ca 370.602	36783	ppb	121.7	0.3	197505
Cd 226.502	-0.8745	ppb	0.0687	7.9	2049.18
Co 228.615	128.808	ppb	0.9347	0.7	2532.04
Cr 267.716	457.604	ppb	0.7723	0.2	37353.5
Cu 324.754	206.166	ppb	5.1890	2.5	14365.3
Fe 271.441	342831	ppb	890.900	0.3	925846
K 766.491	6676.91	ppb	18.9338	0.3	413276
Mg 279.078	7842.20	ppb	18.5028	0.2	40297.0
Mn 257.610	21875.9	ppb	64.5280	0.3	7418184
Mo 202.032	16.6002	ppb	0.6349	3.8	155.706

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Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Na 330.237	-482.039	ppb	124.610	25.9	0.7079
Ni 231.604	124.138	ppb	1.1793	1.0	688.407
Pb 220.353	1081.94	ppb	8.3758	0.8	3636.27
Sb 206.834	-11.1311	ppb	4.4844	40.3	21.6424
Se 196.026	18.8707	ppb	1.7927	9.5	10.6932
Sn 189.925	63.8280	ppb	0.6587	1.0	73.1931
Sr 216.596	200.865	ppb	1.1031	0.5	5647.10
Ti 334.941	1943.61	ppb	4.3411	0.2	642371
Tl 190.794	18.6202	ppb	0.6376	3.4	-48.2855
V 292.401	652.716	ppb	0.7615	0.1	24962.7
Zn 206.200	1040.31	ppb	4.8910	0.5	3119.85

680-115692-a-8-b (Samp)

8/20/2015, 3:46:54 AM

Rack 3, Tube 40

Weight: 1

Volume: 1

Dilution: 1

Label	Replicates	Concentration			
Ag 328.068	-2.7456u	-2.1451u	-2.2067u		
Al 308.215	174124	174076	173717		
As 188.980	112.488	115.318	116.178		
B 249.678	2.0131u	1.6270u	2.0952u		
Ba 389.178	931.595	927.057	928.536		
Be 313.042	9.7686	9.7006	9.7276		
Ca 370.602	79694	79835	79737		
Cd 226.502	-1.0317	-1.1421	-1.1938		
Co 228.615	103.597	102.783	99.5176		
Cr 267.716	514.888	512.495	512.640		
Cu 324.754	211.916	211.781	219.379		
Fe 271.441	338927	336575	337755		
K 766.491	5623.36	5617.84	5595.56		
Mg 279.078	13801.8	13806.3	13769.8		
Mn 257.610	17952.0	17875.1	17836.9		
Mo 202.032	7.6505	8.4633	9.0760		
Na 330.237	-443.314u	-482.352u	-483.240u		
Ni 231.604	92.0821	93.5340	91.9154		
Pb 220.353	624.841	619.751	627.520		
Sb 206.834	-15.6318u	-12.6382u	-20.4066u		
Se 196.026	10.3184	13.9724	7.5717		
Sn 189.925	33.9586	29.5105	29.3416		
Sr 216.596	212.730	211.878	211.355		
Ti 334.941	1869.53	1864.37	1867.41		
Tl 190.794	14.5687u	21.4137	15.8513u		
V 292.401	570.763	567.383	569.021		
Zn 206.200	1602.77	1597.34	1585.66		

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-2.3658	ppb	0.3304	14.0	-179.871
Al 308.215	173972	ppb	222.632	0.1	1480309
As 188.980	114.661	ppb	1.9305	1.7	119.179
B 249.678	1.9117	ppb	0.2500	13.1	-768.137
Ba 389.178	929.063	ppb	2.3144	0.2	30794.6
Be 313.042	9.7323	ppb	0.0342	0.4	25387.0
Ca 370.602	79755	ppb	72.62	0.1	434672
Cd 226.502	-1.1225	ppb	0.0828	7.4	1996.35
Co 228.615	101.966	ppb	2.1588	2.1	1999.71

E08192015.wvq. All Data Report 8/20/2015, 3:03:52 PM

<b>Label</b>	<b>Sol'n Conc.</b>	<b>Units</b>	<b>SD</b>	<b>%RSD</b>	<b>Int. (c/s)</b>
Cr 267.716	513.341	ppb	1.3416	0.3	41831.8
Cu 324.754	214.359	ppb	4.3478	2.0	14921.0
Fe 271.441	337752	ppb	1176.10	0.3	912128
K 766.491	5612.25	ppb	14.7193	0.3	347462
Mg 279.078	13792.6	ppb	19.9021	0.1	71729.6
Mn 257.610	17888.0	ppb	58.6016	0.3	6066248
Mo 202.032	8.3966	ppb	0.7151	8.5	81.8234
Na 330.237	-469.636	ppb	22.7992	4.9	3.1793
Ni 231.604	92.5105	ppb	0.8903	1.0	518.353
Pb 220.353	624.037	ppb	3.9466	0.6	2147.13
Sb 206.834	-16.2255	ppb	3.9181	24.1	14.3449
Se 196.026	10.6208	ppb	3.2111	30.2	2.7614
Sn 189.925	30.9369	ppb	2.6182	8.5	19.8713
Sr 216.596	211.988	ppb	0.6936	0.3	5895.84
Ti 334.941	1867.10	ppb	2.5950	0.1	617099
Tl 190.794	17.2779	ppb	3.6386	21.1	-53.7536
V 292.401	569.055	ppb	1.6902	0.3	21755.9
Zn 206.200	1595.26	ppb	8.7415	0.5	4784.79

**680-115692-a-4-b (Samp)****8/20/2015, 3:51:31 AM****Rack 3, Tube 41****Weight: 1****Volume: 1****Dilution: 1**

<b>Label</b>	<b>Replicates</b>	<b>Concentration</b>
Ag 328.068	-1.1358u	-0.7989u
Al 308.215	125588	125558
As 188.980	173.499	181.309
B 249.678	-9.3578u	-6.4366u
Ba 389.178	919.592	916.330
Be 313.042	7.9110	7.8952
Ca 370.602	54820	54766
Cd 226.502	-2.5854	-2.3844
Co 228.615	68.7355	70.1898
Cr 267.716	429.524	428.675
Cu 324.754	222.891	218.975
Fe 271.441	462357	460363
K 766.491	3212.12	3186.28
Mg 279.078	16020.3	16003.9
Mn 257.610	12144.8	12105.2
Mo 202.032	14.7605	14.8302
Na 330.237	-573.213u	-363.102u
Ni 231.604	69.5398	69.6192
Pb 220.353	556.098	549.200
Sb 206.834	-14.2101u	-19.6780u
Se 196.026	11.5021	24.0264
Sn 189.925	41.5808	38.8595
Sr 216.596	122.952	122.321
Ti 334.941	1629.34	1625.98
Tl 190.794	19.9900u	20.4329u
V 292.401	689.256	687.255
Zn 206.200	891.571	896.202

<b>Label</b>	<b>Sol'n Conc.</b>	<b>Units</b>	<b>SD</b>	<b>%RSD</b>	<b>Int. (c/s)</b>
Ag 328.068	-0.9577	ppb	0.1693	17.7	-99.7465
Al 308.215	125158	ppb	719.028	0.6	1065215

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Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
As 188.980	178.183	ppb	4.1317	2.3	192.919
B 249.678	-7.5056	ppb	1.6104	21.5	-1276.88
Ba 389.178	915.867	ppb	3.9763	0.4	30463.3
Be 313.042	7.8817	ppb	0.0379	0.5	20430.4
Ca 370.602	54671	ppb	213.0	0.4	292693
Cd 226.502	-2.5992	ppb	0.2220	8.5	2596.74
Co 228.615	69.7583	ppb	0.8894	1.3	1349.12
Cr 267.716	428.097	ppb	1.7864	0.4	34939.0
Cu 324.754	221.778	ppb	2.4451	1.1	15472.9
Fe 271.441	460179	ppb	2276.72	0.5	1242679
K 766.491	3193.42	ppb	16.3402	0.5	197937
Mg 279.078	15961.2	ppb	88.5424	0.6	83388.4
Mn 257.610	12093.2	ppb	58.5372	0.5	4102256
Mo 202.032	14.9468	ppb	0.2646	1.8	133.403
Na 330.237	-481.488	ppb	107.563	22.3	-46.9240
Ni 231.604	68.9755	ppb	1.0469	1.5	403.777
Pb 220.353	553.252	ppb	3.6037	0.7	1936.99
Sb 206.834	-18.8436	ppb	4.2777	22.7	5.9340
Se 196.026	15.1804	ppb	7.6970	50.7	3.1279
Sn 189.925	40.0735	ppb	1.3841	3.5	34.6828
Sr 216.596	122.330	ppb	0.6175	0.5	4113.25
Ti 334.941	1623.89	ppb	6.7443	0.4	536743
Tl 190.794	20.9599	ppb	1.3151	6.3	-70.6416
V 292.401	686.949	ppb	2.4741	0.4	26274.1
Zn 206.200	892.264	ppb	3.6420	0.4	2675.80

680-115692-a-3-b (Samp)

8/20/2015, 3:56:08 AM

Rack 3, Tube 42

Weight: 1

Volume: 1

Dilution: 1

Label	Replicates	Concentration	
Ag 328.068	-2.2393u	-2.0982u	-1.4475u
Al 308.215	145416	146610	145103
As 188.980	144.397	140.486	145.415
B 249.678	-3.4768u	-3.4096u	-3.0818u
Ba 389.178	552.032	554.684	550.258
Be 313.042	4.9536	4.9694	4.9407
Ca 370.602	60177	60659	60251
Cd 226.502	-2.6615	-2.1993	-2.6553
Co 228.615	70.6102	71.8710	70.2014
Cr 267.716	511.089	512.755	512.153
Cu 324.754	128.202	126.068	128.806
Fe 271.441	364913	366641	364176
K 766.491	3255.89	3270.33	3241.92
Mg 279.078	16930.2	17042.4	16928.1
Mn 257.610	10933.5	10989.8	10945.2
Mo 202.032	12.8363	12.6252	12.0115
Na 330.237	-509.122u	-583.156u	-551.604u
Ni 231.604	67.1907	69.3864	69.4388
Pb 220.353	239.024	240.607	240.285
Sb 206.834	-14.7490u	-14.5599u	-10.4217u
Se 196.026	10.1280	-4.8402u	14.7371
Sn 189.925	25.8265	24.0207	26.9159
Sr 216.596	99.9076	101.422	100.469
Ti 334.941	1724.91	1734.50	1721.01

E08192015.wvq. All Data Report 8/20/2015, 3:03:52 PM

Label	Replicates Concentration			
Tl 190.794	18.6446u	20.6395u	15.5012u	
V 292.401	679.155	682.321	678.439	
Zn 206.200	318.567	322.621	317.070	

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-1.9283	ppb	0.4224	21.9	-179.425
Al 308.215	145710	ppb	795.252	0.5	1239978
As 188.980	143.433	ppb	2.6021	1.8	152.899
B 249.678	-3.3227	ppb	0.2114	6.4	-943.251
Ba 389.178	552.325	ppb	2.2278	0.4	18376.3
Be 313.042	4.9546	ppb	0.0144	0.3	12615.9
Ca 370.602	60362	ppb	259.9	0.4	326455
Cd 226.502	-2.5054	ppb	0.2651	10.6	2040.05
Co 228.615	70.8942	ppb	0.8703	1.2	1379.59
Cr 267.716	511.999	ppb	0.8440	0.2	41681.3
Cu 324.754	127.692	ppb	1.4384	1.1	9039.12
Fe 271.441	365243	ppb	1265.12	0.3	986351
K 766.491	3256.05	ppb	14.2047	0.4	201808
Mg 279.078	16966.9	ppb	65.4009	0.4	88701.8
Mn 257.610	10956.2	ppb	29.7103	0.3	3716359
Mo 202.032	12.4910	ppb	0.4285	3.4	117.042
Na 330.237	-547.961	ppb	37.1508	6.8	-13.0026
Ni 231.604	68.6720	ppb	1.2831	1.9	393.206
Pb 220.353	239.972	ppb	0.8370	0.3	902.407
Sb 206.834	-13.2435	ppb	2.4456	18.5	18.6264
Se 196.026	6.6749	ppb	10.2353	153.3	-3.2065
Sn 189.925	25.5877	ppb	1.4623	5.7	11.1992
Sr 216.596	100.599	ppb	0.7654	0.8	3358.69
Ti 334.941	1726.81	ppb	6.9430	0.4	570746
Tl 190.794	18.2618	ppb	2.5905	14.2	-62.0196
V 292.401	679.971	ppb	2.0659	0.3	26002.9
Zn 206.200	319.419	ppb	2.8721	0.9	955.992

680-115692-a-14-b (Samp)      8/20/2015, 4:00:45 AM      Rack 3, Tube 43  
 Weight: 1      Volume: 1      Dilution: 1

Label	Replicates Concentration			
Ag 328.068	-2.2755u	-3.1095u	-1.6832u	
Al 308.215	157677	157217	158137	
As 188.980	116.517	118.448	119.163	
B 249.678	1.6965u	1.3978u	2.5827u	
Ba 389.178	1469.38	1468.14	1479.50	
Be 313.042	6.2786	6.2748	6.2820	
Ca 370.602	39786	39658	39935	
Cd 226.502	-0.3619	-0.3173	-0.2844	
Co 228.615	119.523	120.801	118.328	
Cr 267.716	645.230	643.474	645.024	
Cu 324.754	167.613	162.139	155.442	
Fe 271.441	293774	292891	293299	
K 766.491	5239.42	5243.62	5259.86	
Mg 279.078	6667.32	6653.15	6679.89	
Mn 257.610	17463.7	17395.7	17435.6	
Mo 202.032	12.1691	11.7964	11.1585	
Na 330.237	-536.961u	-444.927u	-398.547u	

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Label	Replicates	Concentration			
Ni 231.604	101.389	98.2084	102.315		
Pb 220.353	941.907	937.927	944.817		
Sb 206.834	-7.1033u	-15.1430u	-10.4798u		
Se 196.026	-0.9298	10.5266	1.6650		
Sn 189.925	38.0366	39.7646	41.3263		
Sr 216.596	142.506	141.468	141.341		
Ti 334.941	1721.92	1721.59	1725.69		
Tl 190.794	17.0634	13.2490u	17.5054		
V 292.401	482.777	481.127	482.514		
Zn 206.200	884.393	881.620	890.589		

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-2.3561	ppb	0.7165	30.4	-170.614
Al 308.215	157677	ppb	460.164	0.3	1341716
As 188.980	118.043	ppb	1.3693	1.2	123.691
B 249.678	1.8923	ppb	0.6162	32.6	-650.268
Ba 389.178	1472.34	ppb	6.2345	0.4	48693.2
Be 313.042	6.2785	ppb	0.0036	0.1	16129.0
Ca 370.602	39793	ppb	138.5	0.3	214926
Cd 226.502	-0.3212	ppb	0.0389	12.1	1803.33
Co 228.615	119.551	ppb	1.2367	1.0	2344.25
Cr 267.716	644.576	ppb	0.9597	0.1	52427.8
Cu 324.754	161.731	ppb	6.0960	3.8	11327.1
Fe 271.441	293321	ppb	442.039	0.2	792164
K 766.491	5247.63	ppb	10.7961	0.2	324923
Mg 279.078	6666.79	ppb	13.3749	0.2	34323.7
Mn 257.610	17431.7	ppb	34.1311	0.2	5911244
Mo 202.032	11.7080	ppb	0.5111	4.4	114.706
Na 330.237	-460.145	ppb	70.4509	15.3	23.0378
Ni 231.604	100.638	ppb	2.1542	2.1	557.674
Pb 220.353	941.551	ppb	3.4587	0.4	3171.40
Sb 206.834	-10.9087	ppb	4.0370	37.0	26.2050
Se 196.026	3.7539	ppb	6.0071	160.0	-2.4185
Sn 189.925	39.7092	ppb	1.6456	4.1	34.0928
Sr 216.596	141.772	ppb	0.6394	0.5	4135.23
Ti 334.941	1723.06	ppb	2.2800	0.1	569479
Tl 190.794	15.9393	ppb	2.3403	14.7	-49.9598
V 292.401	482.140	ppb	0.8868	0.2	18415.5
Zn 206.200	885.534	ppb	4.5920	0.5	2653.81

680-115692-a-5-b (Samp)      8/20/2015, 4:05:22 AM      Rack 3, Tube 44  
 Weight: 1      Volume: 1      Dilution: 1

Label	Replicates	Concentration			
Ag 328.068	-1.4411u	-1.0578u	-1.7012u		
Al 308.215	87576.0	87636.9	87449.6		
As 188.980	40.2471	39.9313	42.1167		
B 249.678	3.9370u	4.3065u	4.1108u		
Ba 389.178	588.415	588.946	589.832		
Be 313.042	6.6425	6.6557	6.6452		
Ca 370.602	29421	29548	29434		
Cd 226.502	0.1645	0.1745	-0.0093		
Co 228.615	24.0814	23.5576	24.1875		
Cr 267.716	137.910	138.097	137.684		

E08192015.wvq. All Data Report 8/20/2015, 3:03:52 PM

<b>Label</b>	<b>Replicates</b>	<b>Concentration</b>			
Cu 324.754	40.2425	40.9848	40.3526		
Fe 271.441	96996.2	97289.9	97064.6		
K 766.491	1548.02	1553.78	1549.23		
Mg 279.078	13756.4	13970.0	13885.9		
Mn 257.610	1719.30	1727.63	1720.56		
Mo 202.032	0.9221	1.7103	1.8371		
Na 330.237	-121.660u	-153.082u	-273.390u		
Ni 231.604	38.5693	38.6333	37.0816		
Pb 220.353	172.379	170.887	170.524		
Sb 206.834	-5.2798u	-8.9716u	-4.8142u		
Se 196.026	11.0763	6.4947	-1.5561u		
Sn 189.925	17.7900	17.8600	17.8470		
Sr 216.596	64.7930	64.3310	65.1484		
Ti 334.941	300.056	300.958	300.785		
Tl 190.794	6.5585u	6.5301u	5.6270u		
V 292.401	173.014	173.394	173.215		
Zn 206.200	246.074	247.558	247.486		

<b>Label</b>	<b>Sol'n Conc.</b>	<b>Units</b>	<b>SD</b>	<b>%RSD</b>	<b>Int. (c/s)</b>
Ag 328.068	-1.4001	ppb	0.3237	23.1	-131.688
Al 308.215	87554.2	ppb	95.5371	0.1	745307
As 188.980	40.7650	ppb	1.1812	2.9	34.5313
B 249.678	4.1181	ppb	0.1849	4.5	-83.8770
Ba 389.178	589.065	ppb	0.7161	0.1	19364.5
Be 313.042	6.6478	ppb	0.0070	0.1	17090.4
Ca 370.602	29468	ppb	69.91	0.2	160679
Cd 226.502	0.1099	ppb	0.1033	94.0	678.445
Co 228.615	23.9422	ppb	0.3373	1.4	409.343
Cr 267.716	137.897	ppb	0.2070	0.2	11248.7
Cu 324.754	40.5266	ppb	0.4006	1.0	3013.11
Fe 271.441	97116.9	ppb	153.705	0.2	262382
K 766.491	1550.34	ppb	3.0356	0.2	96366.7
Mg 279.078	13870.7	ppb	107.594	0.8	72847.2
Mn 257.610	1722.50	ppb	4.4865	0.3	584625
Mo 202.032	1.4898	ppb	0.4957	33.3	34.7487
Na 330.237	-182.711	ppb	80.0869	43.8	127.394
Ni 231.604	38.0947	ppb	0.8780	2.3	204.001
Pb 220.353	171.263	ppb	0.9832	0.6	633.112
Sb 206.834	-6.3552	ppb	2.2778	35.8	29.7338
Se 196.026	5.3383	ppb	6.3951	119.8	-5.7955
Sn 189.925	17.8323	ppb	0.0372	0.2	-1.3723
Sr 216.596	64.7575	ppb	0.4099	0.6	1825.77
Ti 334.941	300.599	ppb	0.4788	0.2	99388.4
Tl 190.794	6.2385	ppb	0.5298	8.5	-52.5431
V 292.401	173.208	ppb	0.1899	0.1	6600.51
Zn 206.200	247.039	ppb	0.8367	0.3	741.883

680-115692-a-15-b (Samp)      8/20/2015, 4:10:00 AM      Rack 3, Tube 45  
 Weight: 1      Volume: 1      Dilution: 1

<b>Label</b>	<b>Replicates</b>	<b>Concentration</b>			
Ag 328.068	-5.1673u	-5.0957u	-4.5483u		
Al 308.215	204156	206289	204476		
As 188.980	129.714	131.035	131.841		

Label	Replicates	Concentration			
B 249.678	-1.8678u	-1.9639u	-2.3388u		
Ba 389.178	995.820	1004.26	995.032		
Be 313.042	7.0736	7.1771	7.1309		
Ca 370.602	28142	28739	28478		
Cd 226.502	-1.5613	-1.6567	-1.5781		
Co 228.615	129.774	133.178	132.156		
Cr 267.716	308.472	313.959	311.481		
Cu 324.754	154.377	148.090	148.187		
Fe 271.441	304940	310289	307335		
K 766.491	6708.61	6797.81	6703.25		
Mg 279.078	8074.35	8177.65	8111.10		
Mn 257.610	19690.3	19973.3	19868.8		
Mo 202.032	12.6012	12.0999	11.8048		
Na 330.237	-585.986u	-714.162u	-571.447u		
Ni 231.604	109.549	109.223	111.110		
Pb 220.353	491.797	494.475	486.733		
Sb 206.834	-14.9469u	-18.7937u	-10.3811u		
Se 196.026	8.3018	12.1174	10.2924		
Sn 189.925	41.3576	40.7315	42.0772		
Sr 216.596	106.520	108.675	105.557		
Ti 334.941	1835.00	1862.10	1845.08		
Tl 190.794	16.1182	13.3232u	18.8422		
V 292.401	587.739	596.664	590.968		
Zn 206.200	503.415	505.003	502.209		

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-4.9371	ppb	0.3386	6.9	-402.378
Al 308.215	204974	ppb	1149.95	0.6	1743953
As 188.980	130.863	ppb	1.0739	0.8	138.696
B 249.678	-2.0568	ppb	0.2489	12.1	-764.611
Ba 389.178	998.371	ppb	5.1161	0.5	33046.8
Be 313.042	7.1272	ppb	0.0519	0.7	18406.0
Ca 370.602	28453	ppb	299.6	1.1	152183
Cd 226.502	-1.5987	ppb	0.0509	3.2	1774.62
Co 228.615	131.703	ppb	1.7471	1.3	2586.87
Cr 267.716	311.304	ppb	2.7478	0.9	25491.0
Cu 324.754	150.218	ppb	3.6021	2.4	10548.6
Fe 271.441	307521	ppb	2679.75	0.9	830508
K 766.491	6736.56	ppb	53.1145	0.8	416964
Mg 279.078	8121.03	ppb	52.3595	0.6	41832.8
Mn 257.610	19844.1	ppb	143.074	0.7	6729215
Mo 202.032	12.1686	ppb	0.4026	3.3	117.838
Na 330.237	-623.865	ppb	78.5366	12.6	4.0542
Ni 231.604	109.961	ppb	1.0086	0.9	609.009
Pb 220.353	491.002	ppb	3.9318	0.8	1709.74
Sb 206.834	-14.7072	ppb	4.2114	28.6	14.1412
Se 196.026	10.2372	ppb	1.9084	18.6	3.4551
Sn 189.925	41.3887	ppb	0.6734	1.6	36.8155
Sr 216.596	106.917	ppb	1.5964	1.5	3354.72
Ti 334.941	1847.39	ppb	13.6955	0.7	610572
Tl 190.794	16.0945	ppb	2.7596	17.1	-49.4132
V 292.401	591.790	ppb	4.5189	0.8	22637.8
Zn 206.200	503.542	ppb	1.4011	0.3	1510.21

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**680-115692-a-6-b (Samp)** **8/20/2015, 4:14:37 AM** **Rack 3, Tube 46**  
**Weight: 1** **Volume: 1** **Dilution: 1**

<b>Label</b>	<b>Replicates</b>	<b>Concentration</b>	
Ag 328.068	-2.4070u	-2.1957u	-2.3035u
Al 308.215	158191	157505	157921
As 188.980	141.047	136.608	138.592
B 249.678	-1.2494u	-2.3773u	-1.6459u
Ba 389.178	856.221	856.206	856.342
Be 313.042	5.4019	5.3783	5.3744
Ca 370.602	32596	32310	32400
Cd 226.502	-1.3074	-1.4407	-1.0911
Co 228.615	82.6087	84.6447	82.6126
Cr 267.716	358.541	354.902	355.455
Cu 324.754	133.514	125.189	127.801
Fe 271.441	315455	313384	314169
K 766.491	4980.21	4976.39	4970.92
Mg 279.078	6456.43	6423.07	6436.04
Mn 257.610	12928.9	12784.1	12847.4
Mo 202.032	11.5844	11.8686	11.7883
Na 330.237	-558.769u	-599.663u	-410.349u
Ni 231.604	81.9475	81.2970	81.7776
Pb 220.353	469.504	465.260	469.738
Sb 206.834	-7.1410u	-12.6428u	-10.0742u
Se 196.026	10.2123	2.5760	13.3402
Sn 189.925	30.7860	30.0115	27.3855
Sr 216.596	100.316	98.8195	99.5351
Ti 334.941	1823.68	1812.36	1812.75
Tl 190.794	17.5914u	16.9292u	21.7599
V 292.401	600.424	596.551	598.606
Zn 206.200	589.951	586.364	587.774

<b>Label</b>	<b>Sol'n Conc.</b>	<b>Units</b>	<b>SD</b>	<b>%RSD</b>	<b>Int. (c/s)</b>
Ag 328.068	-2.3021	ppb	0.1057	4.6	-194.025
Al 308.215	157872	ppb	345.447	0.2	1343393
As 188.980	138.749	ppb	2.2236	1.6	147.947
B 249.678	-1.7575	ppb	0.5722	32.6	-777.084
Ba 389.178	856.256	ppb	0.0746	0.0	28352.5
Be 313.042	5.3849	ppb	0.0149	0.3	13748.7
Ca 370.602	32435	ppb	146.1	0.5	173639
Cd 226.502	-1.2797	ppb	0.1764	13.8	1843.92
Co 228.615	83.2886	ppb	1.1744	1.4	1629.10
Cr 267.716	356.299	ppb	1.9606	0.6	29081.7
Cu 324.754	128.835	ppb	4.2573	3.3	9097.54
Fe 271.441	314336	ppb	1045.29	0.3	848900
K 766.491	4975.84	ppb	4.6673	0.1	308121
Mg 279.078	6438.51	ppb	16.8161	0.3	33306.6
Mn 257.610	12853.5	ppb	72.5732	0.6	4359215
Mo 202.032	11.7471	ppb	0.1465	1.2	113.582
Na 330.237	-522.927	ppb	99.6165	19.0	9.5573
Ni 231.604	81.6740	ppb	0.3374	0.4	458.095
Pb 220.353	468.167	ppb	2.5203	0.5	1635.23
Sb 206.834	-9.9526	ppb	2.7529	27.7	22.6225
Se 196.026	8.7095	ppb	5.5372	63.6	-0.5001
Sn 189.925	29.3943	ppb	1.7823	6.1	17.3706
Sr 216.596	99.5570	ppb	0.7487	0.8	3201.63

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Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ti 334.941	1816.26	ppb	6.4245	0.4	600280
Tl 190.794	18.7602	ppb	2.6189	14.0	-51.7707
V 292.401	598.527	ppb	1.9378	0.3	22893.3
Zn 206.200	588.030	ppb	1.8071	0.3	1763.38

CRI (Samp) 8/20/2015, 4:19:14 AM Rack 3, Tube 47  
 Weight: 1 Volume: 1 Dilution: 1

Label	Replicates	Concentration				
Ag 328.068	9.4603	9.6579	9.1320			
Al 308.215	172.677	170.727	171.222			
As 188.980	19.7900	20.2008	18.7104			
B 249.678	92.5041	92.9037	92.5749			
Ba 389.178	10.2936	10.7017	10.7418			
Be 313.042	3.8313	3.8254	3.8392			
Ca 370.602	536.3	537.7	538.9			
Cd 226.502	5.2003	5.0820	5.1875			
Co 228.615	9.9507	10.0579	9.8932			
Cr 267.716	9.8533	9.3528	9.6596			
Cu 324.754	18.2510	18.9610	19.6181			
Fe 271.441	49.7508	46.4926	42.3125			
K 766.491	991.505	989.271	999.094			
Mg 279.078	470.229	469.423	471.636			
Mn 257.610	10.3062	10.2924	10.3759			
Mo 202.032	9.9688	9.7677	9.9545			
Na 330.237	801.439	605.993	698.603			
Ni 231.604	59.4282	58.7521	59.6701			
Pb 220.353	7.2491	8.1559	6.9326			
Sb 206.834	18.3362	16.2669	12.7467			
Se 196.026	14.1960	18.5342	18.6874			
Sn 189.925	52.8002	48.0419	49.7712			
Sr 216.596	11.3413	11.2591	11.5592			
Ti 334.941	11.4760	11.3792	11.4676			
Tl 190.794	25.4778	23.8035	24.0368			
V 292.401	11.5063	11.4799	11.3923			
Zn 206.200	19.6080	20.1616	20.0250			

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	9.4167	ppb	0.2656	2.8	904.808
Al 308.215	171.542	ppb	1.0136	0.6	2152.12
As 188.980	19.5671	ppb	0.7698	3.9	10.5670
B 249.678	92.6609	ppb	0.2132	0.2	1887.43
Ba 389.178	10.5790	ppb	0.2480	2.3	138.121
Be 313.042	3.8319	ppb	0.0069	0.2	9528.42
Ca 370.602	537.6	ppb	1.269	0.2	2943
Cd 226.502	5.1566	ppb	0.0649	1.3	546.401
Co 228.615	9.9673	ppb	0.0836	0.8	125.396
Cr 267.716	9.6219	ppb	0.2524	2.6	821.662
Cu 324.754	18.9434	ppb	0.6837	3.6	1509.69
Fe 271.441	46.1853	ppb	3.7287	8.1	281.867
K 766.491	993.290	ppb	5.1494	0.5	61931.3
Mg 279.078	470.429	ppb	1.1198	0.2	2580.59
Mn 257.610	10.3248	ppb	0.0448	0.4	3543.28
Mo 202.032	9.8970	ppb	0.1122	1.1	115.183

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Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Na 330.237	702.012	ppb	97.7676	13.9	241.286
Ni 231.604	59.2835	ppb	0.4758	0.8	308.491
Pb 220.353	7.4459	ppb	0.6349	8.5	86.6616
Sb 206.834	15.7833	ppb	2.8260	17.9	66.2340
Se 196.026	17.1392	ppb	2.5501	14.9	3.4577
Sn 189.925	50.2044	ppb	2.4085	4.8	51.1092
Sr 216.596	11.3865	ppb	0.1551	1.4	322.550
Ti 334.941	11.4409	ppb	0.0537	0.5	3786.78
Tl 190.794	24.4393	ppb	0.9068	3.7	-5.8485
V 292.401	11.4595	ppb	0.0597	0.5	407.167
Zn 206.200	19.9315	ppb	0.2884	1.4	61.3917

mb 680-396717/1-a (Samp)

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Rack 3, Tube 48

Weight: 1

Volume: 1

Dilution: 1

Label	Replicates	Concentration			
Ag 328.068	-0.2227u	0.5198	0.2215		
Al 308.215	-14.3481u	-13.5478u	-15.9549u		
As 188.980	-0.2509u	1.6100	-0.6856u		
B 249.678	1.3455	0.9535	0.7407		
Ba 389.178	1.6496	1.9401	0.9395		
Be 313.042	0.0259	0.0246	0.0191		
Ca 370.602	23.12	24.39	27.02		
Cd 226.502	0.5128	0.3637	0.3610		
Co 228.615	1.1732	1.1105	0.2510		
Cr 267.716	0.1914	0.4046	0.2369		
Cu 324.754	2.6276	2.0622	3.6061		
Fe 271.441	1.3009	4.4660	2.9568		
K 766.491	7.4674	7.8046	7.8726		
Mg 279.078	0.2364	-0.5345u	1.4643		
Mn 257.610	0.3214	0.3208	0.3048		
Mo 202.032	0.8047	-0.0193u	0.8271		
Na 330.237	-223.484u	-67.8708u	-63.2234u		
Ni 231.604	0.7539	2.5089	1.8451		
Pb 220.353	-0.4802u	-0.8201u	-1.9112u		
Sb 206.834	-6.9050u	-8.7692u	-0.8441u		
Se 196.026	11.0516	-2.4779u	-3.7842u		
Sn 189.925	12.3033	11.6827	13.8860		
Sr 216.596	0.0581	-0.1588u	0.2242		
Ti 334.941	0.1123	0.2286	0.2015		
Tl 190.794	1.0784	-0.7599u	-2.2821u		
V 292.401	0.2301	0.5070	0.4545		
Zn 206.200	2.5035	2.0138	4.5091		

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	0.1729	ppb	0.3737	216.2	27.9142
Al 308.215	-14.6169	ppb	1.2259	8.4	567.052
As 188.980	0.2245	ppb	1.2194	543.1	-12.3133
B 249.678	1.0132	ppb	0.3068	30.3	115.015
Ba 389.178	1.5097	ppb	0.5148	34.1	-162.830
Be 313.042	0.0232	ppb	0.0036	15.7	-649.544
Ca 370.602	24.84	ppb	1.988	8.0	102.2
Cd 226.502	0.4125	ppb	0.0868	21.1	127.508
Co 228.615	0.8449	ppb	0.5153	61.0	54.7287

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Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Cr 267.716	0.2777	ppb	0.1123	40.4	65.8827
Cu 324.754	2.7653	ppb	0.7811	28.2	409.687
Fe 271.441	2.9079	ppb	1.5831	54.4	163.234
K 766.491	7.7148	ppb	0.2170	2.8	1005.86
Mg 279.078	0.3888	ppb	1.0081	259.3	111.772
Mn 257.610	0.3157	ppb	0.0094	3.0	144.070
Mo 202.032	0.5375	ppb	0.4823	89.7	32.3965
Na 330.237	-118.193	ppb	91.2143	77.2	172.820
Ni 231.604	1.7026	ppb	0.8861	52.0	-0.3557
Pb 220.353	-1.0705	ppb	0.7476	69.8	59.0354
Sb 206.834	-5.5061	ppb	4.1436	75.3	30.9291
Se 196.026	1.5965	ppb	8.2144	514.5	-8.6367
Sn 189.925	12.6240	ppb	1.1361	9.0	-9.8155
Sr 216.596	0.0412	ppb	0.1920	466.3	59.7345
Ti 334.941	0.1808	ppb	0.0609	33.7	64.8000
Tl 190.794	-0.6545	ppb	1.6827	257.1	-52.4299
V 292.401	0.3972	ppb	0.1471	37.0	-13.6254
Zn 206.200	3.0088	ppb	1.3222	43.9	10.6836

Cont Calib Verif (CCV)

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Rack 3, Tube 49

Weight: 1

Volume: 1

Dilution: 1

Label	Replicates	Concentration					
Ag 328.068	490.346	496.810	488.784				
Al 308.215	4909.43	4671.39	4720.81				
As 188.980	489.008	460.451	466.216				
B 249.678	476.846	457.053	464.107				
Ba 389.178	5014.31	4782.11	4822.90				
Be 313.042	499.202	475.481	478.495				
Ca 370.602	5237	5003	5077				
Cd 226.502	497.109	473.410	479.230				
Co 228.615	493.135	469.385	475.350				
Cr 267.716	5089.70	4854.58	4921.80				
Cu 324.754	4838.85	4972.61	4807.19				
Fe 271.441	4888.62	4649.35	4698.35				
K 766.491	9685.27	9404.32	9461.04				
Mg 279.078	4845.02	4625.72	4684.70				
Mn 257.610	4990.49	4755.03	4816.69				
Mo 202.032	505.839	482.423	486.570				
Na 330.237	6935.29	6362.85	6612.81				
Ni 231.604	2460.12	2343.26	2369.63				
Pb 220.353	498.751	474.099	478.349				
Sb 206.834	1005.35	955.798	965.717				
Se 196.026	4825.68	4596.75	4645.07				
Sn 189.925	4661.44	4840.75	4749.78				
Sr 216.596	2479.03	2361.41	2395.96				
Ti 334.941	496.310	472.505	477.140				
Tl 190.794	5010.20	4778.59	4816.65				
V 292.401	4949.72	4730.42	4764.99				
Zn 206.200	2475.49	2355.30	2392.09				

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)	QC Value
Ag 328.068	491.980	ppb	4.2553	0.9	46649.0	98.39600
Al 308.215	4767.21	ppb	125.621	2.6	41904.1	95.34421

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Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)	QC Value
As 188.980	471.892	ppb	15.1009	3.2	545.404	94.37840
B 249.678	466.002	ppb	10.0317	2.2	9110.09	93.20041
Ba 389.178	4873.11	ppb	123.977	2.5	160847	97.46214
Be 313.042	484.393	ppb	12.9137	2.7	1294127	96.87856
Ca 370.602	5106	ppb	119.6	2.3	28774	102.11418
Cd 226.502	483.250	ppb	12.3500	2.6	42767.1	96.64994
Co 228.615	479.290	ppb	12.3557	2.6	9402.32	95.85803
Cr 267.716	4955.36	ppb	121.100	2.4	400850	99.10725
Cu 324.754	4872.88	ppb	87.8031	1.8	331435	97.45765
Fe 271.441	4745.44	ppb	126.391	2.7	13147.0	94.90879
K 766.491	9516.88	ppb	148.564	1.6	588835	95.16875
Mg 279.078	4718.48	ppb	113.487	2.4	24700.9	94.36958
Mn 257.610	4854.07	ppb	122.100	2.5	1645766	97.08138
Mo 202.032	491.610	ppb	12.4953	2.5	4474.65	98.32207
Na 330.237	6636.98	ppb	286.985	4.3	731.884	88.49309Q
Ni 231.604	2391.00	ppb	61.2916	2.6	12815.0	95.64006
Pb 220.353	483.733	ppb	13.1783	2.7	1637.53	96.74660
Sb 206.834	975.622	ppb	26.2202	2.7	1732.19	97.56221
Se 196.026	4689.17	ppb	120.669	2.6	3639.71	93.78334
Sn 189.925	4750.66	ppb	89.6548	1.9	7671.33	95.01316
Sr 216.596	2412.13	ppb	60.4558	2.5	56461.5	96.48518
Ti 334.941	481.985	ppb	12.6200	2.6	159294	96.39703
Tl 190.794	4868.48	ppb	124.203	2.6	8993.51	97.36960
V 292.401	4815.04	ppb	117.910	2.4	183995	96.30088
Zn 206.200	2407.63	ppb	61.5841	2.6	7186.05	96.30510

Cont Calib Blank (CCB) 8/20/2015, 4:33:05 AM

Weight: 1 Volume: 1

Rack 3, Tube 50

Dilution: 1

Label	Replicates	Concentration
Ag 328.068	-0.1882u	0.3699
	-0.1882u	-0.0379u
Al 308.215	-20.4117u	-18.0932u
	-20.4117u	-18.6678u
As 188.980	-1.5921u	-1.7473u
	-1.5921u	-4.0634u
B 249.678	3.5307	2.6862
	3.5307	3.0957
Ba 389.178	2.0057	1.5294
	2.0057	1.8902
Be 313.042	0.0373	0.0164
	0.0373	0.0281
Ca 370.602	9.028	6.272
	9.028	1.292
Cd 226.502	0.3362	0.3772
	0.3362	0.4981
Co 228.615	0.5734	0.6706
	0.5734	0.0406
Cr 267.716	-0.2902u	-0.2810u
	-0.2902u	-0.1926u
Cu 324.754	-0.1763u	-0.3931u
	-0.1763u	0.1389
Fe 271.441	-2.0949u	-7.4502u
	-2.0949u	-8.8100u
K 766.491	-1.7687u	-0.6827u
	-1.7687u	-0.0454u
Mg 279.078	-5.1166u	-0.6701u
	-5.1166u	-5.2727u
Mn 257.610	0.0583	0.0949
	0.0583	0.0366
Mo 202.032	-0.1737u	0.7226
	-0.1737u	-0.6529u
Na 330.237	-262.751u	-155.051u
	-262.751u	-138.119u
Ni 231.604	1.3828	1.8176
	1.3828	0.6271
Pb 220.353	-3.7365u	-0.0883u
	-3.7365u	-1.8144u
Sb 206.834	-3.4092u	-3.7738u
	-3.4092u	-0.7611u
Se 196.026	-4.5129u	-1.2580u
	-4.5129u	6.6262
Sn 189.925	0.4711	-0.4419u
	0.4711	-0.4362u
Sr 216.596	-0.1063u	-0.1750u
	-0.1063u	-0.2463u
Ti 334.941	-0.0631u	0.1660
	-0.0631u	0.0507

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Label	Replicates Concentration		
Tl 190.794	2.7555	2.5607	0.0517
V 292.401	-0.1328u	0.2594	0.7067
Zn 206.200	1.6966	0.0017	-0.0247u

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)	QC Value
Ag 328.068	0.0479	ppb	0.2888	602.6	16.0582	0.04792
Al 308.215	-19.0576	ppb	1.2074	6.3	529.242	-19.05758
As 188.980	-2.4676	ppb	1.3841	56.1	-15.4982	-2.46761
B 249.678	3.1042	ppb	0.4223	13.6	155.511	3.10418
Ba 389.178	1.8084	ppb	0.2484	13.7	-152.979	1.80842
Be 313.042	0.0273	ppb	0.0105	38.4	-638.562	0.02725
Ca 370.602	5.530	ppb	3.921	70.9	-4.331	5.53042
Cd 226.502	0.4038	ppb	0.0842	20.8	126.681	0.40385
Co 228.615	0.4282	ppb	0.3392	79.2	-62.9214	0.42819
Cr 267.716	-0.2546	ppb	0.0538	21.2	22.8203	-0.25459
Cu 324.754	-0.1435	ppb	0.2675	186.4	211.924	-0.14349
Fe 271.441	-6.1184	ppb	3.5502	58.0	138.795	-6.11836
K 766.491	-0.8323	ppb	0.8713	104.7	477.500	-0.83228
Mg 279.078	-3.6865	ppb	2.6134	70.9	90.3756	-3.68648
Mn 257.610	0.0633	ppb	0.0295	46.6	58.4132	0.06326
Mo 202.032	-0.0347	ppb	0.6982	2014.7	27.2133	-0.03465
Na 330.237	-185.307	ppb	67.6008	36.5	167.223	-185.30663
Ni 231.604	1.2758	ppb	0.6024	47.2	-2.6446	1.27585
Pb 220.353	-1.8798	ppb	1.8250	97.1	56.4069	-1.87975
Sb 206.834	-2.6480	ppb	1.6442	62.1	35.6683	-2.64802
Se 196.026	0.2851	ppb	5.7276	2008.9	-9.6568	0.28512
Sn 189.925	-0.1357	ppb	0.5255	387.3	-30.5011	-0.13569
Sr 216.596	-0.1759	ppb	0.0700	39.8	54.6737	-0.17586
Ti 334.941	0.0512	ppb	0.1145	223.8	21.9726	0.05118
Tl 190.794	1.7893	ppb	1.5079	84.3	-47.8981	1.78932
V 292.401	0.2778	ppb	0.4200	151.2	-18.0170	0.27777
Zn 206.200	0.5579	ppb	0.9863	176.8	3.3324	0.55787

Ics 680-396717/2-a (Samp)      8/20/2015, 4:37:43 AM      Rack 3, Tube 51  
 Weight: 1      Volume: 1      Dilution: 1

Label	Replicates Concentration		
Ag 328.068	45.7600	45.9860	44.8198
Al 308.215	4394.32	4381.78	4342.66
As 188.980	93.5335	93.0514	95.1427
B 249.678	170.752	171.298	170.466
Ba 389.178	92.3826	92.6070	91.6610
Be 313.042	47.4209	47.3775	47.0387
Ca 370.602	4678	4672	4642
Cd 226.502	47.3867	47.1159	46.6213
Co 228.615	47.4838	47.2789	46.3897
Cr 267.716	94.3594	94.1126	93.6105
Cu 324.754	102.398	106.726	102.737
Fe 271.441	4418.31	4415.92	4378.88
K 766.491	4456.38	4456.22	4422.07
Mg 279.078	4303.02	4302.44	4255.46
Mn 257.610	458.445	457.953	454.208
Mo 202.032	91.5223	91.1054	90.0670
Na 330.237	4107.78	4075.00	3898.24

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Label	Replicates	Concentration			
Ni 231.604	94.6430	95.2311	93.3849		
Pb 220.353	440.030	438.371	434.630		
Sb 206.834	43.3336	44.2247	44.4999		
Se 196.026	81.7388	81.7385	87.1444		
Sn 189.925	188.037	192.852	188.270		
Sr 216.596	89.9119	89.8530	88.9566		
Ti 334.941	91.9603	91.8029	91.1443		
Tl 190.794	36.5730	38.8580	36.9583		
V 292.401	91.7205	91.8238	90.2869		
Zn 206.200	93.4169	92.9700	91.4618		

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	45.5220	ppb	0.6185	1.4	4330.16
Al 308.215	4372.92	ppb	26.9483	0.6	37897.0
As 188.980	93.9092	ppb	1.0951	1.2	98.4280
B 249.678	170.839	ppb	0.4229	0.2	3387.91
Ba 389.178	92.2169	ppb	0.4943	0.5	2849.28
Be 313.042	47.2790	ppb	0.2092	0.4	125633
Ca 370.602	4664	ppb	19.50	0.4	25715
Cd 226.502	47.0413	ppb	0.3881	0.8	4268.67
Co 228.615	47.0508	ppb	0.5816	1.2	856.437
Cr 267.716	94.0275	ppb	0.3817	0.4	7652.90
Cu 324.754	103.954	ppb	2.4068	2.3	7292.36
Fe 271.441	4404.37	ppb	22.1056	0.5	12057.2
K 766.491	4444.89	ppb	19.7651	0.4	275299
Mg 279.078	4286.97	ppb	27.2921	0.6	22609.9
Mn 257.610	456.869	ppb	2.3172	0.5	154999
Mo 202.032	90.8982	ppb	0.7494	0.8	850.739
Na 330.237	4027.01	ppb	112.716	2.8	517.112
Ni 231.604	94.4197	ppb	0.9431	1.0	497.228
Pb 220.353	437.677	ppb	2.7658	0.6	1484.52
Sb 206.834	44.0194	ppb	0.6097	1.4	112.924
Se 196.026	83.5406	ppb	3.1210	3.7	55.2522
Sn 189.925	189.720	ppb	2.7148	1.4	277.289
Sr 216.596	89.5738	ppb	0.5353	0.6	2163.18
Ti 334.941	91.6358	ppb	0.4329	0.5	30296.6
Tl 190.794	37.4631	ppb	1.2233	3.3	18.2219
V 292.401	91.2771	ppb	0.8590	0.9	3438.44
Zn 206.200	92.6162	ppb	1.0244	1.1	278.823

680-115692-a-61-d (Samp)      8/20/2015, 4:42:20 AM      Rack 3, Tube 52  
 Weight: 1      Volume: 1      Dilution: 1

Label	Replicates	Concentration			
Ag 328.068	-2.9463u	-2.6261u	-3.8600u		
Al 308.215	172182	172688	172096		
As 188.980	260.198	259.727	260.796		
B 249.678	-24.2987u	-26.5756u	-28.4916u		
Ba 389.178	2835.66	2822.84	2831.70		
Be 313.042	23.4384	23.6243	23.6437		
Ca 370.602	72884	73096	73148		
Cd 226.502	-5.0466	-5.2870	-5.5612		
Co 228.615	167.395	167.755	167.732		
Cr 267.716	422.186	422.948	424.642		

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Label	Replicates	Concentration	
Cu 324.754	25.2680	26.2734	26.6339
Fe 271.441	726185	727787	728013
K 766.491	2858.93	2852.17	2844.90
Mg 279.078	43153.3	43200.7	43258.8
Mn 257.610	21119.5	21081.5	21142.9
Mo 202.032	4.2510u	4.6259u	4.1758u
Na 330.237	-640.197u	-820.583u	-1018.55u
Ni 231.604	90.6047	89.7431	87.6590
Pb 220.353	234.972	238.132	238.464
Sb 206.834	-27.2095u	-32.1405u	-28.5316u
Se 196.026	21.9423	25.6558	24.1904
Sn 189.925	22.6106	19.0829	17.1307
Sr 216.596	9.2197	8.4591	9.4053
Ti 334.941	349.876	349.602	349.102
Tl 190.794	37.8987u	35.9490u	32.6725u
V 292.401	882.586	881.414	882.637
Zn 206.200	350.201	353.860	356.588

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-3.1441	ppb	0.6403	20.4	-301.653
Al 308.215	172322	ppb	320.176	0.2	1466368
As 188.980	260.240	ppb	0.5357	0.2	286.924
B 249.678	-26.4553	ppb	2.0990	7.9	-2356.45
Ba 389.178	2830.07	ppb	6.5681	0.2	93997.6
Be 313.042	23.5688	ppb	0.1133	0.5	62376.0
Ca 370.602	73043	ppb	140.1	0.2	387024
Cd 226.502	-5.2983	ppb	0.2574	4.9	3957.88
Co 228.615	167.627	ppb	0.2015	0.1	3227.17
Cr 267.716	423.259	ppb	1.2570	0.3	34712.3
Cu 324.754	26.0584	ppb	0.7079	2.7	2271.41
Fe 271.441	727328	ppb	996.397	0.1	1964013
K 766.491	2852.00	ppb	7.0195	0.2	176831
Mg 279.078	43204.2	ppb	52.8419	0.1	226115
Mn 257.610	21114.7	ppb	30.9830	0.1	7162331
Mo 202.032	4.3509	ppb	0.2411	5.5	20.5205
Na 330.237	-826.442	ppb	189.243	22.9	-184.216
Ni 231.604	89.3356	ppb	1.5146	1.7	537.880
Pb 220.353	237.189	ppb	1.9272	0.8	959.238
Sb 206.834	-29.2939	ppb	2.5524	8.7	-16.8321
Se 196.026	23.9295	ppb	1.8704	7.8	11.4077
Sn 189.925	19.6081	ppb	2.7774	14.2	1.5037
Sr 216.596	9.0280	ppb	0.5013	5.6	2149.78
Ti 334.941	349.527	ppb	0.3924	0.1	115705
Tl 190.794	35.5068	ppb	2.6410	7.4	-76.0839
V 292.401	882.212	ppb	0.6916	0.1	33744.8
Zn 206.200	353.549	ppb	3.2046	0.9	1059.14

680-115692-a-61-dSD (Samp)    8/20/2015, 4:46:57 AM    Rack 3, Tube 53  
 Weight: 1    Volume: 1    Dilution: 1

Label	Replicates	Concentration	
Ag 328.068	-0.9308u	-0.8197u	-0.1545u
Al 308.215	40525.8	39798.9	38978.9
As 188.980	58.9840	57.5854	57.4902

Label	Replicates	Concentration			
B 249.678	-6.5089u	-6.4470u	-4.8026u		
Ba 389.178	665.576	654.563	642.871		
Be 313.042	5.5611	5.4635	5.3403		
Ca 370.602	17401	17078	16693		
Cd 226.502	-1.5445	-1.7533	-1.6735		
Co 228.615	39.5883	38.5061	37.1573		
Cr 267.716	99.7658	97.8733	95.4280		
Cu 324.754	5.4446	6.3996	5.1756		
Fe 271.441	176792	173248	169746		
K 766.491	602.035	591.409	580.377		
Mg 279.078	10289.2	10086.9	9887.70		
Mn 257.610	5392.92	5282.97	5177.90		
Mo 202.032	0.8949u	1.5576	0.4527u		
Na 330.237	-236.083u	-199.965u	-143.010u		
Ni 231.604	21.9563	22.7239	20.9643		
Pb 220.353	54.0850	58.4844	53.9850		
Sb 206.834	-10.6426u	-10.9287u	-14.3232u		
Se 196.026	2.7236	0.3365	7.6127		
Sn 189.925	5.2194	6.2652	5.4028		
Sr 216.596	2.2435	1.6673	1.2412		
Ti 334.941	83.5270	81.5386	78.8703		
Tl 190.794	7.7036u	13.0879	9.3543u		
V 292.401	205.645	202.228	197.915		
Zn 206.200	84.4121	81.6625	80.0790		

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.6350	ppb	0.4198	66.1	-50.7987
Al 308.215	39767.9	ppb	773.888	1.9	338936
As 188.980	58.0199	ppb	0.8363	1.4	54.0658
B 249.678	-5.9195	ppb	0.9678	16.3	-481.352
Ba 389.178	654.337	ppb	11.3546	1.7	21573.9
Be 313.042	5.4549	ppb	0.1107	2.0	13889.7
Ca 370.602	17057	ppb	354.1	2.1	90286
Cd 226.502	-1.6571	ppb	0.1053	6.4	977.613
Co 228.615	38.4172	ppb	1.2179	3.2	684.377
Cr 267.716	97.6890	ppb	2.1748	2.2	8050.26
Cu 324.754	5.6733	ppb	0.6432	11.3	673.772
Fe 271.441	173262	ppb	3522.92	2.0	467980
K 766.491	591.273	ppb	10.8296	1.8	37079.8
Mg 279.078	10087.9	ppb	200.755	2.0	52866.7
Mn 257.610	5284.59	ppb	107.517	2.0	1792572
Mo 202.032	0.9684	ppb	0.5561	57.4	25.2503
Na 330.237	-193.020	ppb	46.9241	24.3	95.6001
Ni 231.604	21.8815	ppb	0.8822	4.0	124.135
Pb 220.353	55.5181	ppb	2.5693	4.6	273.084
Sb 206.834	-11.9648	ppb	2.0474	17.1	18.1872
Se 196.026	3.5576	ppb	3.7091	104.3	-6.3755
Sn 189.925	5.6291	ppb	0.5584	9.9	-21.1560
Sr 216.596	1.7173	ppb	0.5030	29.3	546.852
Ti 334.941	81.3120	ppb	2.3366	2.9	26921.4
Tl 190.794	10.0486	ppb	2.7585	27.5	-54.0092
V 292.401	201.930	ppb	3.8740	1.9	7701.69
Zn 206.200	82.0512	ppb	2.1926	2.7	247.079

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680-115692-a-61-dPDS (Samp)		8/20/2015, 4:51:34 AM		Rack 3, Tube 54	
Weight: 1	Volume: 1	Dilution: 1			
Label	Replicates	Concentration			
Ag 328.068	50.9170	47.6471	52.1609		
Al 308.215	171980	170989	170981		
As 188.980	336.382	337.931	339.223		
B 249.678	122.725	124.327	120.866		
Ba 389.178	2884.67	2896.65	2884.29		
Be 313.042	104.582	104.431	104.163		
Ca 370.602	80867	80556	80357		
Cd 226.502	71.3902	71.6116	70.8544		
Co 228.615	240.539	233.688	241.395		
Cr 267.716	504.088	503.365	500.078		
Cu 324.754	112.117	103.394	113.089		
Fe 271.441	729617	732564	727404		
K 766.491	11791.3	11801.9	11791.3		
Mg 279.078	50450.3	50381.9	50219.6		
Mn 257.610	21672.8	21636.7	21491.4		
Mo 202.032	85.1690	83.9251	83.4326		
Na 330.237	6856.65	6746.29	6813.10		
Ni 231.604	167.441	166.376	167.329		
Pb 220.353	310.490	309.405	306.153		
Sb 206.834	55.9054	54.7400	47.8904		
Se 196.026	99.6900	106.310	93.5655		
Sn 189.925	98.6258	98.1326	94.7863		
Sr 216.596	86.0661	86.1523	84.7632		
Ti 334.941	429.299	426.679	427.217		
Tl 190.794	46.3066u	46.6885u	46.1923u		
V 292.401	959.330	956.990	954.478		
Zn 206.200	429.816	428.849	423.988		

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	50.2417	ppb	2.3315	4.6	4764.14
Al 308.215	171317	ppb	574.344	0.3	1457835
As 188.980	337.846	ppb	1.4224	0.4	378.670
B 249.678	122.639	ppb	1.7321	1.4	521.328
Ba 389.178	2888.54	ppb	7.0289	0.2	95949.9
Be 313.042	104.392	ppb	0.2120	0.2	278370
Ca 370.602	80594	ppb	256.7	0.3	428754
Cd 226.502	71.2854	ppb	0.3893	0.5	10731.1
Co 228.615	238.541	ppb	4.2242	1.8	4626.80
Cr 267.716	502.510	ppb	2.1374	0.4	41125.6
Cu 324.754	109.533	ppb	5.3387	4.9	7948.98
Fe 271.441	729862	ppb	2588.32	0.4	1970866
K 766.491	11794.8	ppb	6.0847	0.1	729652
Mg 279.078	50350.6	ppb	118.523	0.2	263640
Mn 257.610	21600.3	ppb	96.0311	0.4	7327060
Mo 202.032	84.1756	ppb	0.8949	1.1	743.542
Na 330.237	6805.35	ppb	55.5889	0.8	452.107
Ni 231.604	167.049	ppb	0.5852	0.4	954.684
Pb 220.353	308.683	ppb	2.2568	0.7	119.272
Sb 206.834	52.8453	ppb	4.3304	8.2	119.272
Se 196.026	99.8551	ppb	6.3738	6.4	70.6390
Sn 189.925	97.1816	ppb	2.0890	2.1	127.268
Sr 216.596	85.6605	ppb	0.7783	0.9	3946.67

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Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ti 334.941	427.732	ppb	1.3839	0.3	141563
Tl 190.794	46.3958	ppb	0.2599	0.6	-55.4993
V 292.401	956.933	ppb	2.4263	0.3	36581.4
Zn 206.200	427.551	ppb	3.1232	0.7	1280.56

680-115692-a-61-e ms (Samp) 8/20/2015, 4:56:11 AM

Rack 3, Tube 55

**Weight:** 1

Volume: 1

**Dilution: 1**

## **Label**      **Replicates** **Concentration**

Ag	328.068	42.9431	42.8707	43.4360
Al	308.215	195421	196830	195873
As	188.980	218.544	217.510	224.226
B	249.678	47.8205u	48.2674u	48.0822u
Ba	389.178	1542.27	1551.38	1544.80
Be	313.042	64.7722	65.2123	65.0599
Ca	370.602	48834	49267	49200
Cd	226.502	39.0804	39.6150	39.1579
Co	228.615	161.311	162.223	162.792
Cr	267.716	433.574	437.182	435.644
Cu	324.754	117.110	115.382	117.064
Fe	271.441	481432	483802	482238
K	766.491	7859.02	7903.38	7843.10
Mg	279.078	33059.4	33288.1	33168.2
Mn	257.610	13783.2	13875.7	14025.5
Mo	202.032	68.6433	68.4453	68.8037
Na	330.237	3898.54	3878.60	3899.84
Ni	231.604	167.226	165.481	165.841
Pb	220.353	554.020	564.522	560.528
Sb	206.834	-0.6061u	0.8939u	3.2096
Se	196.026	80.4804	74.1251	80.4916
Sn	189.925	180.207	182.801	179.265
Sr	216.596	106.480	106.822	107.148
Ti	334.941	291.808	293.269	292.410
Tl	190.794	59.0028	56.3280	53.0477
V	292.401	656.550	660.302	660.283
Zn	206.200	376.623	379.031	378.157

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	43.0833	ppb	0.3076	0.7	4086.53
Al 308.215	196041	ppb	719.768	0.4	1668026
As 188.980	220.093	ppb	3.6160	1.6	242.215
B 249.678	48.0567	ppb	0.2245	0.5	-261.891
Ba 389.178	1546.15	ppb	4.7063	0.3	51350.0
Be 313.042	65.0148	ppb	0.2235	0.3	173111
Ca 370.602	49100	ppb	233.1	0.5	260343
Cd 226.502	39.2845	ppb	0.2889	0.7	6432.77
Co 228.615	162.109	ppb	0.7475	0.5	3121.59
Cr 267.716	435.467	ppb	1.8106	0.4	35553.9
Cu 324.754	116.519	ppb	0.9845	0.8	8328.67
Fe 271.441	482491	ppb	1204.77	0.2	1302938
K 766.491	7868.50	ppb	31.2352	0.4	486937
Mg 279.078	33171.9	ppb	114.362	0.3	173681
Mn 257.610	13894.8	ppb	122.266	0.9	4713352
Mo 202.032	68.6308	ppb	0.1795	0.3	618.480

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Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Na 330.237	3892.33	ppb	11.9021	0.3	310.027
Ni 231.604	166.183	ppb	0.9208	0.6	927.007
Pb 220.353	559.690	ppb	5.3009	0.9	1961.57
Sb 206.834	1.1658	ppb	1.9223	164.9	37.8869
Se 196.026	78.3657	ppb	3.6725	4.7	52.8108
Sn 189.925	180.758	ppb	1.8313	1.0	262.758
Sr 216.596	106.817	ppb	0.3341	0.3	3801.92
Ti 334.941	292.496	ppb	0.7342	0.3	96806.3
Tl 190.794	56.1262	ppb	2.9827	5.3	-7.1135
V 292.401	659.045	ppb	2.1606	0.3	25175.6
Zn 206.200	377.937	ppb	1.2190	0.3	1132.24

680-115692-a-61-f ms (Samp)

8/20/2015, 5:00:49 AM

Rack 3, Tube 56

Weight: 1

Volume: 1

Dilution: 1

Label	Replicates	Concentration			
Ag 328.068	37.0631	40.0848	39.4944		
Al 308.215	180835	179917	181337		
As 188.980	160.505	161.866	162.384		
B 249.678	50.2895	49.4920	49.5517		
Ba 389.178	1611.25	1623.02	1637.09		
Be 313.042	60.3670	60.0848	60.4944		
Ca 370.602	92545	92191	92410		
Cd 226.502	40.0825	39.9859	40.6951		
Co 228.615	127.840	124.112	127.920		
Cr 267.716	371.107	369.647	374.090		
Cu 324.754	104.132	109.780	111.829		
Fe 271.441	298348	297511	301732		
K 766.491	7992.18	7831.66	7862.16		
Mg 279.078	58091.5	57843.8	58403.4		
Mn 257.610	15781.2	15734.0	15857.1		
Mo 202.032	67.3120	67.8568	66.8157		
Na 330.237	3856.93	3932.69	4106.20		
Ni 231.604	160.885	163.679	164.009		
Pb 220.353	498.235	496.629	500.432		
Sb 206.834	-4.0311u	-4.7819u	-1.1553u		
Se 196.026	79.5029	75.5832	75.9323		
Sn 189.925	175.908	175.380	177.325		
Sr 216.596	124.236	125.693	126.166		
Ti 334.941	266.479	265.087	268.571		
Tl 190.794	52.8788	54.6062	41.8220		
V 292.401	493.284	492.830	497.187		
Zn 206.200	308.210	309.291	312.453		

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	38.8808	ppb	1.6016	4.1	3731.89
Al 308.215	180696	ppb	720.449	0.4	1537481
As 188.980	161.585	ppb	0.9706	0.6	175.107
B 249.678	49.7777	ppb	0.4442	0.9	260.075
Ba 389.178	1623.79	ppb	12.9352	0.8	53826.7
Be 313.042	60.3154	ppb	0.2096	0.3	160559
Ca 370.602	92382	ppb	178.4	0.2	503866
Cd 226.502	40.2545	ppb	0.3846	1.0	5427.44
Co 228.615	126.624	ppb	2.1759	1.7	2426.34

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<b>Label</b>	<b>Sol'n Conc.</b>	<b>Units</b>	<b>SD</b>	<b>%RSD</b>	<b>Int. (c/s)</b>
Cr 267.716	371.614	ppb	2.2643	0.6	30332.5
Cu 324.754	108.580	ppb	3.9864	3.7	7718.10
Fe 271.441	299197	ppb	2235.09	0.7	808029
K 766.491	7895.33	ppb	85.2435	1.1	488596
Mg 279.078	58112.9	ppb	280.433	0.5	304644
Mn 257.610	15790.8	ppb	62.0724	0.4	5355585
Mo 202.032	67.3282	ppb	0.5208	0.8	618.289
Na 330.237	3965.27	ppb	127.786	3.2	391.118
Ni 231.604	162.858	ppb	1.7166	1.1	891.998
Pb 220.353	498.432	ppb	1.9090	0.4	1733.00
Sb 206.834	-3.3228	ppb	1.9142	57.6	33.2393
Se 196.026	77.0061	ppb	2.1693	2.8	53.8842
Sn 189.925	176.204	ppb	1.0055	0.6	255.377
Sr 216.596	125.365	ppb	1.0062	0.8	3762.12
Ti 334.941	266.712	ppb	1.7537	0.7	88310.5
Tl 190.794	49.7690	ppb	6.9363	13.9	10.3662
V 292.401	494.434	ppb	2.3955	0.5	18873.8
Zn 206.200	309.985	ppb	2.2048	0.7	928.849

680-115692-a-67-b (Samp)

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Rack 3, Tube 57

Weight: 1

Volume: 1

Dilution: 1

<b>Label</b>	<b>Replicates</b>	<b>Concentration</b>
Ag 328.068	-0.7649u	-2.2755u
Al 308.215	106103	106098
As 188.980	208.608	209.985
B 249.678	-19.7408u	-18.8534u
Ba 389.178	462.765	463.164
Be 313.042	18.4874	18.5062
Ca 370.602	18500	18480
Cd 226.502	-5.6373	-5.9363
Co 228.615	110.516	111.018
Cr 267.716	323.475	322.344
Cu 324.754	56.3474	53.1014
Fe 271.441	584863	583068
K 766.491	1288.44	1282.55
Mg 279.078	9583.96	9571.26
Mn 257.610	5949.63	5949.85
Mo 202.032	4.5951	4.8506
Na 330.237	-804.263u	-578.026u
Ni 231.604	61.3304	62.7031
Pb 220.353	191.417	183.103
Sb 206.834	-18.4475u	-25.5389u
Se 196.026	18.8702	14.1165
Sn 189.925	17.1362	19.5431
Sr 216.596	9.3136	8.7310
Ti 334.941	593.180	593.260
Tl 190.794	27.5775u	23.3903u
V 292.401	759.860	758.958
Zn 206.200	240.872	237.227

<b>Label</b>	<b>Sol'n Conc.</b>	<b>Units</b>	<b>SD</b>	<b>%RSD</b>	<b>Int. (c/s)</b>
Ag 328.068	-1.2798	ppb	0.8624	67.4	-185.037
Al 308.215	106168	ppb	117.198	0.1	903748

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<b>Label</b>	<b>Sol'n Conc.</b>	<b>Units</b>	<b>SD</b>	<b>%RSD</b>	<b>Int. (c/s)</b>
As 188.980	209.212	ppb	0.7039	0.3	228.202
B 249.678	-19.2179	ppb	0.4644	2.4	-1834.65
Ba 389.178	463.673	ppb	1.2444	0.3	15606.4
Be 313.042	18.5015	ppb	0.0124	0.1	48801.0
Ca 370.602	18481	ppb	18.92	0.1	88653
Cd 226.502	-5.7036	ppb	0.2077	3.6	3067.13
Co 228.615	110.999	ppb	0.4747	0.4	2122.02
Cr 267.716	322.811	ppb	0.5908	0.2	26421.6
Cu 324.754	52.7822	ppb	3.7350	7.1	4032.69
Fe 271.441	584339	ppb	1105.79	0.2	1577924
K 766.491	1287.30	ppb	4.3024	0.3	80106.4
Mg 279.078	9573.42	ppb	9.6449	0.1	50088.9
Mn 257.610	5951.23	ppb	2.5811	0.0	2020481
Mo 202.032	4.8029	ppb	0.1886	3.9	33.6773
Na 330.237	-669.506	ppb	119.166	17.8	-112.461
Ni 231.604	62.0682	ppb	0.6921	1.1	378.275
Pb 220.353	187.804	ppb	4.2621	2.3	769.930
Sb 206.834	-21.9486	ppb	3.5466	16.2	-3.3371
Se 196.026	16.8413	ppb	2.4521	14.6	1.0893
Sn 189.925	18.1433	ppb	1.2506	6.9	-0.8704
Sr 216.596	8.8045	ppb	0.4767	5.4	1775.24
Ti 334.941	592.746	ppb	0.8220	0.1	195990
Tl 190.794	24.2304	ppb	3.0162	12.4	-88.6176
V 292.401	759.874	ppb	0.9231	0.1	29066.7
Zn 206.200	239.861	ppb	2.3016	1.0	718.800

**680-115692-a-62-b (Samp)**      **8/20/2015, 5:10:03 AM**      **Rack 3, Tube 58**  
**Weight: 1**      **Volume: 1**      **Dilution: 1**

<b>Label</b>	<b>Replicates</b>	<b>Concentration</b>
Ag 328.068	-2.3214u	-3.0437u
Al 308.215	147769	147967
As 188.980	261.113	265.563
B 249.678	-13.9045u	-13.4959u
Ba 389.178	1555.43	1552.99
Be 313.042	11.8598	11.8903
Ca 370.602	47222	47257
Cd 226.502	-4.4453	-4.2565
Co 228.615	152.067	151.671
Cr 267.716	806.714	815.173
Cu 324.754	230.006	239.496
Fe 271.441	634858	635575
K 766.491	4636.63	4640.43
Mg 279.078	9917.50	9930.03
Mn 257.610	19154.2	19104.7
Mo 202.032	17.4404	16.9193
Na 330.237	-1046.60u	-864.812u
Ni 231.604	103.189	103.756
Pb 220.353	938.233	934.958
Sb 206.834	-8.3464u	-4.3252u
Se 196.026	22.9265	28.3448
Sn 189.925	85.2997	86.1703
Sr 216.596	74.4834	73.6560
Ti 334.941	2414.64	2409.00

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Label	Replicates Concentration			
Tl 190.794	33.6753u	26.8672u	31.4748u	
V 292.401	884.324	887.101	887.233	
Zn 206.200	878.251	881.775	882.023	

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-2.7672	ppb	0.3897	14.1	-261.650
Al 308.215	147911	ppb	123.207	0.1	1258760
As 188.980	264.374	ppb	2.8590	1.1	292.874
B 249.678	-13.5172	ppb	0.3772	2.8	-1860.31
Ba 389.178	1553.79	ppb	1.4201	0.1	51670.2
Be 313.042	11.8823	ppb	0.0197	0.2	31130.2
Ca 370.602	47262	ppb	42.56	0.1	248544
Cd 226.502	-4.2683	ppb	0.1714	4.0	3490.13
Co 228.615	152.396	ppb	0.9342	0.6	3005.26
Cr 267.716	810.634	ppb	4.2632	0.5	66003.5
Cu 324.754	233.128	ppb	5.5155	2.4	16311.7
Fe 271.441	635424	ppb	507.937	0.1	1715868
K 766.491	4641.59	ppb	5.6418	0.1	287459
Mg 279.078	9930.35	ppb	13.0151	0.1	51408.1
Mn 257.610	19135.2	ppb	26.7247	0.1	6490423
Mo 202.032	16.7203	ppb	0.8375	5.0	138.307
Na 330.237	-924.937	ppb	105.367	11.4	-155.660
Ni 231.604	102.799	ppb	1.2005	1.2	601.433
Pb 220.353	939.287	ppb	4.9412	0.5	3222.03
Sb 206.834	-8.8418	ppb	4.7836	54.1	25.0771
Se 196.026	22.7039	ppb	5.7555	25.4	10.3812
Sn 189.925	85.6068	ppb	0.4887	0.6	108.499
Sr 216.596	74.0441	ppb	0.4160	0.6	3433.84
Ti 334.941	2416.37	ppb	8.3685	0.3	798643
Tl 190.794	30.6724	ppb	3.4742	11.3	-72.6375
V 292.401	886.219	ppb	1.6430	0.2	33892.0
Zn 206.200	880.683	ppb	2.1100	0.2	2637.90

680-115692-a-66-b (Samp)      8/20/2015, 5:14:40 AM      Rack 3, Tube 59  
 Weight: 1      Volume: 1      Dilution: 1

Label	Replicates Concentration			
Ag 328.068	-2.3958u	-3.6267u	-2.3577u	
Al 308.215	108268	108046	107685	
As 188.980	446.828	447.448	437.478	
B 249.678	-5.7366u	-6.5250u	-6.5048u	
Ba 389.178	300.077	297.004	296.645	
Be 313.042	8.4135	8.3883	8.3820	
Ca 370.602	21692	21731	21665	
Cd 226.502	-2.0312	-2.0911	-2.2957	
Co 228.615	108.384	107.031	106.413	
Cr 267.716	165.077	165.733	165.125	
Cu 324.754	422.778	417.264	420.572	
Fe 271.441	363714	363412	361696	
K 766.491	5485.64	5459.26	5433.68	
Mg 279.078	6904.93	6903.14	6863.69	
Mn 257.610	7383.92	7385.45	7381.19	
Mo 202.032	11.0233	11.3109	11.2797	
Na 330.237	-677.877u	-498.207u	-633.862u	

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Label	Replicates Concentration			
Ni 231.604	167.876	167.986	165.656	
Pb 220.353	478.335	482.968	480.986	
Sb 206.834	-16.2719u	-18.2628u	-13.1465u	
Se 196.026	10.4220	28.3639	12.8517	
Sn 189.925	24.4126	20.3700	22.3869	
Sr 216.596	24.5248	24.8578	24.5716	
Ti 334.941	639.986	640.235	637.278	
Tl 190.794	20.3398u	18.6420u	16.1207u	
V 292.401	529.812	528.948	527.097	
Zn 206.200	710.725	713.292	712.005	

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-2.7934	ppb	0.7219	25.8	-279.214
Al 308.215	108000	ppb	293.815	0.3	919263
As 188.980	443.918	ppb	5.5857	1.3	508.472
B 249.678	-6.2554	ppb	0.4495	7.2	-993.653
Ba 389.178	297.909	ppb	1.8863	0.6	9942.86
Be 313.042	8.3946	ppb	0.0167	0.2	21776.2
Ca 370.602	21696	ppb	32.86	0.2	111883
Cd 226.502	-2.1393	ppb	0.1387	6.5	2062.65
Co 228.615	107.276	ppb	1.0081	0.9	2057.64
Cr 267.716	165.311	ppb	0.3657	0.2	13608.1
Cu 324.754	420.205	ppb	2.7755	0.7	28925.2
Fe 271.441	362940	ppb	1088.41	0.3	980136
K 766.491	5459.53	ppb	25.9842	0.5	338021
Mg 279.078	6890.59	ppb	23.3076	0.3	35936.2
Mn 257.610	7383.52	ppb	2.1569	0.0	2505002
Mo 202.032	11.2046	ppb	0.1578	1.4	105.754
Na 330.237	-603.316	ppb	93.6490	15.5	-17.0783
Ni 231.604	167.173	ppb	1.3147	0.8	921.192
Pb 220.353	480.763	ppb	2.3245	0.5	1684.53
Sb 206.834	-15.8938	ppb	2.5790	16.2	8.6269
Se 196.026	17.2125	ppb	9.7335	56.5	3.6192
Sn 189.925	22.3898	ppb	2.0213	9.0	6.0149
Sr 216.596	24.6514	ppb	0.1803	0.7	1567.68
Ti 334.941	639.166	ppb	1.6401	0.3	211295
Tl 190.794	18.3675	ppb	2.1229	11.6	-64.8007
V 292.401	528.619	ppb	1.3870	0.3	20215.5
Zn 206.200	712.008	ppb	1.2835	0.2	2137.02

680-115692-a-35-b (Samp)      8/20/2015, 5:19:17 AM      Rack 3, Tube 60  
 Weight: 1      Volume: 1      Dilution: 1

Label	Replicates Concentration		
Ag 328.068	-2.5378u	-2.5204u	-2.6166u
Al 308.215	123449	123081	129599
As 188.980	56.6731	54.8994	60.9890
B 249.678	-4.4485u	-4.6642u	-5.8830u
Ba 389.178	544.447	544.381	573.445
Be 313.042	15.5139	15.5292	16.3325
Ca 370.602	22016	21904	23042
Cd 226.502	-1.8485	-1.8421	-0.8742
Co 228.615	56.8824	54.9120	57.6463
Cr 267.716	243.728	242.697	255.705

E08192015.wvq. All Data Report 8/20/2015, 3:03:52 PM

Label	Replicates	Concentration	
Cu 324.754	20.2101	20.3726	21.1708
Fe 271.441	198726	199203	209611
K 766.491	2711.16	2711.01	2829.32
Mg 279.078	20788.8	20703.8	21808.9
Mn 257.610	2292.12	2289.08	2408.75
Mo 202.032	2.2883	1.0365u	2.3482
Na 330.237	-151.294u	-310.446u	20.0717u
Ni 231.604	76.4946	77.7611	81.4764
Pb 220.353	203.649	198.047	217.755
Sb 206.834	-6.5541u	-9.7296u	-7.9845u
Se 196.026	7.4800	0.3497u	3.4388
Sn 189.925	17.5558	15.8610	16.3355
Sr 216.596	46.4976	46.0675	50.2410
Ti 334.941	164.116	164.239	171.862
Tl 190.794	8.9379u	7.9760u	8.2225u
V 292.401	310.047	309.981	325.380
Zn 206.200	232.862	230.204	245.121

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-2.5583	ppb	0.0513	2.0	-257.117
Al 308.215	125376	ppb	3661.83	2.9	1066988
As 188.980	57.5205	ppb	3.1320	5.4	53.1356
B 249.678	-4.9986	ppb	0.7735	15.5	-541.533
Ba 389.178	554.091	ppb	16.7610	3.0	18312.0
Be 313.042	15.7919	ppb	0.4682	3.0	41538.3
Ca 370.602	22321	ppb	627.5	2.8	118571
Cd 226.502	-1.5216	ppb	0.5607	36.8	1163.95
Co 228.615	56.4802	ppb	1.4108	2.5	1043.80
Cr 267.716	247.377	ppb	7.2307	2.9	20148.8
Cu 324.754	20.5845	ppb	0.5142	2.5	1697.60
Fe 271.441	202513	ppb	6151.37	3.0	546964
K 766.491	2750.50	ppb	68.2602	2.5	170557
Mg 279.078	21100.5	ppb	614.962	2.9	110777
Mn 257.610	2329.98	ppb	68.2299	2.9	791154
Mo 202.032	1.8910	ppb	0.7406	39.2	31.6296
Na 330.237	-147.223	ppb	165.297	112.3	87.2494
Ni 231.604	78.5774	ppb	2.5893	3.3	431.020
Pb 220.353	206.484	ppb	10.1551	4.9	764.660
Sb 206.834	-8.0894	ppb	1.5903	19.7	26.4433
Se 196.026	3.7561	ppb	3.5757	95.2	-7.5924
Sn 189.925	16.5841	ppb	0.8743	5.3	-3.3963
Sr 216.596	47.6020	ppb	2.2955	4.8	1694.89
Ti 334.941	166.739	ppb	4.4369	2.7	55183.0
Tl 190.794	8.3788	ppb	0.4997	6.0	-63.7708
V 292.401	315.136	ppb	8.8716	2.8	12029.4
Zn 206.200	236.063	ppb	7.9568	3.4	708.038

Cont Calib Verif (CCV)      8/20/2015, 5:23:54 AM      Rack 4, Tube 1  
 Weight: 1      Volume: 1      Dilution: 1

Label	Replicates	Concentration	
Ag 328.068	477.998	489.078	481.754
Al 308.215	4668.69	4655.51	4858.96
As 188.980	471.354	460.892	477.225

Label	Replicates	Concentration					
B 249.678	453.472	455.410	475.732				
Ba 389.178	4756.93	4748.99	4941.49				
Be 313.042	474.495	473.514	493.235				
Ca 370.602	5029	5024	5222				
Cd 226.502	472.422	472.587	491.050				
Co 228.615	469.000	468.055	488.085				
Cr 267.716	4860.64	4858.39	5054.17				
Cu 324.754	4729.62	4950.07	4832.33				
Fe 271.441	4645.09	4649.73	4839.55				
K 766.491	9289.31	9313.19	9469.17				
Mg 279.078	4616.80	4611.42	4801.82				
Mn 257.610	4755.71	4748.71	4937.79				
Mo 202.032	478.477	479.883	501.720				
Na 330.237	6444.32	6349.32	7003.22				
Ni 231.604	2344.32	2338.61	2432.63				
Pb 220.353	469.829	472.850	490.536				
Sb 206.834	951.817	951.784	987.211				
Se 196.026	4537.23	4574.00	4773.55				
Sn 189.925	4801.98	4721.72	4911.75				
Sr 216.596	2366.85	2362.96	2454.95				
Ti 334.941	472.066	471.057	491.215				
Tl 190.794	4758.10	4739.95	4953.49				
V 292.401	4708.96	4710.38	4892.64				
Zn 206.200	2353.21	2353.73	2449.28				

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)	QC Value	
Ag 328.068	482.943	ppb	5.6349	1.2	45792.3	96.58867	
Al 308.215	4727.72	ppb	113.848	2.4	41561.9	94.55440	
As 188.980	469.824	ppb	8.2737	1.8	542.961	93.96471	
B 249.678	461.538	ppb	12.3304	2.7	9023.71	92.30762	
Ba 389.178	4815.80	ppb	108.920	2.3	158953	96.31602	
Be 313.042	480.415	ppb	11.1137	2.3	1283494	96.08295	
Ca 370.602	5091	ppb	113.0	2.2	28689	101.82973	
Cd 226.502	478.686	ppb	10.7075	2.2	42364.2	95.73726	
Co 228.615	475.047	ppb	11.3015	2.4	9318.42	95.00938	
Cr 267.716	4924.40	ppb	112.388	2.3	398346	98.48800	
Cu 324.754	4837.34	ppb	110.310	2.3	329020	96.74683	
Fe 271.441	4711.46	ppb	110.955	2.4	13053.6	94.22918	
K 766.491	9357.22	ppb	97.6805	1.0	578966	93.57223	
Mg 279.078	4676.68	ppb	108.405	2.3	24483.2	93.53360	
Mn 257.610	4814.07	ppb	107.199	2.2	1632206	96.28143	
Mo 202.032	486.693	ppb	13.0324	2.7	4430.16	97.33858	
Na 330.237	6598.95	ppb	353.315	5.4	728.752	87.98604Q	
Ni 231.604	2371.85	ppb	52.7106	2.2	12712.3	94.87411	
Pb 220.353	477.738	ppb	11.1859	2.3	1618.03	95.54768	
Sb 206.834	963.604	ppb	20.4439	2.1	1711.68	96.36040	
Se 196.026	4628.26	ppb	127.161	2.7	3592.32	92.56522	
Sn 189.925	4811.82	ppb	95.3990	2.0	7770.48	96.23632	
Sr 216.596	2394.92	ppb	52.0224	2.2	56059.3	95.79678	
Ti 334.941	478.113	ppb	11.3578	2.4	158014	95.62251	
Tl 190.794	4817.18	ppb	118.393	2.5	8898.24	96.34361	
V 292.401	4770.66	ppb	105.642	2.2	182299	95.41316	
Zn 206.200	2385.41	ppb	55.3202	2.3	7119.72	95.41628	

E08192015.wvq. All Data Report 8/20/2015, 3:03:52 PM

Cont Calib Blank (CCB)		8/20/2015, 5:28:32 AM		Rack 4, Tube 2		
Weight: 1		Volume: 1		Dilution: 1		
Label	Replicates	Concentration				
Ag 328.068	-0.6296u	0.3581	-0.7084u			
Al 308.215	-20.4016u	-20.9692u	-20.2091u			
As 188.980	0.3375	-1.4674u	-3.0519u			
B 249.678	3.6969	3.0474	3.1061			
Ba 389.178	0.7692	1.4023	1.6082			
Be 313.042	0.0330	0.0310	0.0304			
Ca 370.602	5.372	6.222	3.668			
Cd 226.502	0.3740	0.4260	0.1635			
Co 228.615	0.6218	0.7225	0.2812			
Cr 267.716	-0.3704u	-0.1814u	0.0408			
Cu 324.754	-0.3372u	-0.5115u	-0.5149u			
Fe 271.441	0.4090	-8.2562u	-8.4368u			
K 766.491	-1.1458u	-1.0946u	-2.0695u			
Mg 279.078	-2.5067u	-5.5143u	-3.2699u			
Mn 257.610	0.0840	0.0233	0.0467			
Mo 202.032	0.2638	0.5192	0.1661			
Na 330.237	-295.711u	-256.948u	-226.252u			
Ni 231.604	1.6949	1.2084	0.2951			
Pb 220.353	0.6596	-1.4041u	-1.9103u			
Sb 206.834	-5.5135u	-9.3557u	-7.0118u			
Se 196.026	0.3438	0.1132	1.2979			
Sn 189.925	3.4489	-0.7883u	0.8402			
Sr 216.596	0.0292	-0.1303u	0.4725			
Ti 334.941	0.0491	0.1544	0.1501			
Tl 190.794	4.2084	4.0599	0.0161			
V 292.401	0.3304	0.3339	0.2976			
Zn 206.200	0.2772	0.7992	-0.8804u			
Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)	QC Value
Ag 328.068	-0.3266	ppb	0.5943	181.9	-19.4893	-0.32662
Al 308.215	-20.5267	ppb	0.3952	1.9	516.777	-20.52666
As 188.980	-1.3939	ppb	1.6959	121.7	-14.2280	-1.39391
B 249.678	3.2835	ppb	0.3592	10.9	158.959	3.28346
Ba 389.178	1.2599	ppb	0.4373	34.7	-171.101	1.25988
Be 313.042	0.0315	ppb	0.0014	4.3	-627.334	0.03148
Ca 370.602	5.088	ppb	1.300	25.6	-6.766	5.08761
Cd 226.502	0.3212	ppb	0.1390	43.3	119.387	0.32117
Co 228.615	0.5418	ppb	0.2313	42.7	-60.7004	0.54182
Cr 267.716	-0.1703	ppb	0.2059	120.8	29.6332	-0.17034
Cu 324.754	-0.4545	ppb	0.1016	22.4	190.794	-0.45454
Fe 271.441	-5.4280	ppb	5.0558	93.1	140.673	-5.42800
K 766.491	-1.4367	ppb	0.5487	38.2	440.140	-1.43665
Mg 279.078	-3.7636	ppb	1.5634	41.5	89.9718	-3.76362
Mn 257.610	0.0513	ppb	0.0306	59.7	54.3701	0.05131
Mo 202.032	0.3164	ppb	0.1824	57.6	30.3939	0.31638
Na 330.237	-259.637	ppb	34.8076	13.4	161.015	-259.63693
Ni 231.604	1.0662	ppb	0.7106	66.7	-3.7697	1.06615
Pb 220.353	-0.8849	ppb	1.3613	153.8	59.6367	-0.88495
Sb 206.834	-7.2937	ppb	1.9366	26.6	27.9563	-7.29368
Se 196.026	0.5850	ppb	0.6281	107.4	-9.4236	0.58498
Sn 189.925	1.1669	ppb	2.1374	183.2	-28.3894	1.16692
Sr 216.596	0.1238	ppb	0.3123	252.3	61.6977	0.12378

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Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)	QC Value
Ti 334.941	0.1179	ppb	0.0596	50.6	44.0143	0.11785
Tl 190.794	2.7615	ppb	2.3787	86.1	-46.0961	2.76146
V 292.401	0.3206	ppb	0.0200	6.2	-16.4877	0.32065
Zn 206.200	0.0653	ppb	0.8596	1315.8	1.8540	0.06533

680-115692-a-36-b (Samp)

8/20/2015, 5:33:10 AM

Rack 4, Tube 3

Weight: 1

Volume: 1

Dilution: 1

Label	Replicates	Concentration				
Ag 328.068	0.5742u	1.0016	1.2242			
Al 308.215	112635	111957	111662			
As 188.980	347.841	336.013	344.971			
B 249.678	-23.3741u	-22.7020u	-22.7638u			
Ba 389.178	360.553	360.432	357.408			
Be 313.042	3.7200	3.6924	3.6722			
Ca 370.602	21398	21247	21235			
Cd 226.502	-6.7703	-6.5459	-6.7838			
Co 228.615	61.3183	60.8660	62.9193			
Cr 267.716	802.551	799.681	796.515			
Cu 324.754	98.1488	101.655	102.063			
Fe 271.441	677819	676142	673492			
K 766.491	2038.59	2025.56	2013.90			
Mg 279.078	8763.29	8724.85	8697.30			
Mn 257.610	6395.25	6371.14	6344.23			
Mo 202.032	15.6735	15.4819	14.9410			
Na 330.237	-1080.53u	-894.514u	-984.041u			
Ni 231.604	40.9704	41.2048	38.7673			
Pb 220.353	229.545	224.121	223.375			
Sb 206.834	-28.3288u	-28.7800u	-18.8653u			
Se 196.026	25.3043	25.2302	15.7899			
Sn 189.925	23.5370	23.9480	25.4720			
Sr 216.596	-5.6566	-5.6511	-6.7242			
Ti 334.941	1667.66	1657.83	1646.20			
Tl 190.794	28.4682u	25.2703u	27.8812u			
V 292.401	1080.41	1074.73	1068.79			
Zn 206.200	234.564	232.267	231.805			

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	0.9333	ppb	0.3304	35.4	11.3244
Al 308.215	112085	ppb	498.652	0.4	954118
As 188.980	342.942	ppb	6.1695	1.8	385.366
B 249.678	-22.9466	ppb	0.3715	1.6	-2151.49
Ba 389.178	359.464	ppb	1.7819	0.5	12236.2
Be 313.042	3.6949	ppb	0.0240	0.6	9252.45
Ca 370.602	21293	ppb	90.60	0.4	102889
Cd 226.502	-6.7000	ppb	0.1336	2.0	3521.44
Co 228.615	61.7012	ppb	1.0789	1.7	1184.37
Cr 267.716	799.582	ppb	3.0194	0.4	65026.8
Cu 324.754	100.623	ppb	2.1520	2.1	7317.59
Fe 271.441	675818	ppb	2181.61	0.3	1824919
K 766.491	2026.02	ppb	12.3475	0.6	125772
Mg 279.078	8728.48	ppb	33.1427	0.4	45628.7
Mn 257.610	6370.20	ppb	25.5238	0.4	2162939
Mo 202.032	15.3654	ppb	0.3799	25	123.229

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Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Na 330.237	-986.361	ppb	93.0278	9.4	-176.527
Ni 231.604	40.3142	ppb	1.3447	3.3	270.460
Pb 220.353	225.680	ppb	3.3678	1.5	907.641
Sb 206.834	-25.3247	ppb	5.5985	22.1	-3.2583
Se 196.026	22.1081	ppb	5.4719	24.8	4.6528
Sn 189.925	24.3190	ppb	1.0194	4.2	9.1410
Sr 216.596	-6.0107	ppb	0.6180	10.3	1666.83
Ti 334.941	1657.23	ppb	10.7418	0.6	547776
Tl 190.794	27.2066	ppb	1.7023	6.3	-96.2544
V 292.401	1074.64	ppb	5.8077	0.5	41103.7
Zn 206.200	232.879	ppb	1.4779	0.6	693.899

680-115692-a-26-b (Samp)

8/20/2015, 5:37:48 AM

Rack 4, Tube 4

Weight: 1

Volume: 1

Dilution: 1

Label	Replicates	Concentration				
Ag 328.068	-1.4107u	-1.4344u	-2.1994u			
Al 308.215	136903	136565	135959			
As 188.980	225.384	221.616	222.253			
B 249.678	6.6599u	5.6220u	6.1487u			
Ba 389.178	3260.84	3265.32	3276.09			
Be 313.042	16.2064	16.2431	16.2578			
Ca 370.602	148330	148320	147922			
Cd 226.502	-1.7755	-1.9504	-1.9275			
Co 228.615	153.879	153.404	155.271			
Cr 267.716	546.397	547.079	544.891			
Cu 324.754	174.126	168.909	175.448			
Fe 271.441	607507	608419	610306			
K 766.491	5678.33	5661.91	5682.87			
Mg 279.078	14210.4	14176.1	14288.5			
Mn 257.610	32579.4x	32495.3x	32552.8x			
Mo 202.032	9.9704	11.2277	9.6857			
Na 330.237	-720.962u	-829.750u	-747.207u			
Ni 231.604	77.0330	76.5154	77.2291			
Pb 220.353	674.032	676.859	671.108			
Sb 206.834	-25.5828u	-21.3310u	-24.9487u			
Se 196.026	21.4131	12.9525	26.6235			
Sn 189.925	34.6423	33.1736	35.2503			
Sr 216.596	284.993	285.507	284.272			
Ti 334.941	4133.36	4144.81	4124.39			
Tl 190.794	36.8630	29.1707u	28.5827u			
V 292.401	969.419	968.717	970.829			
Zn 206.200	963.112	966.731	956.562			

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-1.6815b	ppb	0.4487	26.7	-84.0671
Al 308.215	136475b	ppb	477.908	0.4	1161519
As 188.980	223.085b	ppb	2.0168	0.9	244.330
B 249.678	6.1435b	ppb	0.5190	8.4	-1409.52
Ba 389.178	3267.42b	ppb	7.8368	0.2	108284
Be 313.042	16.2358b	ppb	0.0265	0.2	42813.7
Ca 370.602	148191b	ppb	232.6	0.2	808663
Cd 226.502	-1.8845b	ppb	0.0951	5.0	3534.81
Co 228.615	154.185b	ppb	0.9701	0.6	3103.51

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<b>Label</b>	<b>Sol'n Conc.</b>	<b>Units</b>	<b>SD</b>	<b>%RSD</b>	<b>Int. (c/s)</b>
Cr 267.716	546.122b	ppb	1.1195	0.2	44697.4
Cu 324.754	172.828b	ppb	3.4573	2.0	12200.5
Fe 271.441	608744b	ppb	1427.58	0.2	1643831
K 766.491	5674.37b	ppb	11.0266	0.2	351302
Mg 279.078	14225.0b	ppb	57.5732	0.4	73443.5
Mn 257.610	32542.5xb	ppb	42.9968	0.1	11035747
Mo 202.032	10.2946b	ppb	0.8205	8.0	81.6102
Na 330.237	-765.973b	ppb	56.7701	7.4	-131.774
Ni 231.604	76.9258b	ppb	0.3687	0.5	460.101
Pb 220.353	674.000b	ppb	2.8760	0.4	2359.93
Sb 206.834	-23.9542b	ppb	2.2938	9.6	-3.6128
Se 196.026	20.3297b	ppb	6.8996	33.9	13.9466
Sn 189.925	34.3554b	ppb	1.0677	3.1	25.4122
Sr 216.596	284.924b	ppb	0.6201	0.2	8307.96
Ti 334.941	4134.19b	ppb	10.2335	0.2	1366326
Tl 190.794	31.5388b	ppb	4.6203	14.6	-55.0881
V 292.401	969.655b	ppb	1.0755	0.1	37124.6
Zn 206.200	962.135b	ppb	5.1542	0.5	2884.50

680-115692-a-69-b (Samp)

8/20/2015, 5:42:26 AM

Rack 4, Tube 5

Weight: 1

Volume: 1

Dilution: 1

<b>Label</b>	<b>Replicates</b>	<b>Concentration</b>
Ag 328.068	-0.4931u	-1.0367u
Al 308.215	121441	120484
As 188.980	146.987	148.991
B 249.678	20.6364u	21.3601u
Ba 389.178	720.433	714.758
Be 313.042	6.2210	6.1842
Ca 370.602	127858	127229
Cd 226.502	-1.6313	-1.6828
Co 228.615	71.4043	67.4445
Cr 267.716	581.785	579.512
Cu 324.754	312.198	304.744
Fe 271.441	329113	327015
K 766.491	3675.14	3665.86
Mg 279.078	20294.2	20203.6
Mn 257.610	17767.5	17542.8
Mo 202.032	23.3805	22.3945
Na 330.237	124.730u	186.631u
Ni 231.604	101.844	104.783
Pb 220.353	463.352	458.639
Sb 206.834	-14.9878u	-17.7330u
Se 196.026	16.2449	11.0812
Sn 189.925	30.3303	29.0916
Sr 216.596	169.417	167.277
Ti 334.941	1576.76	1568.92
Tl 190.794	16.7533u	14.5250u
V 292.401	503.690	501.157
Zn 206.200	843.002	835.886

<b>Label</b>	<b>Sol'n Conc.</b>	<b>Units</b>	<b>SD</b>	<b>%RSD</b>	<b>Int. (c/s)</b>
Ag 328.068	-0.5035	ppb	0.5282	104.9	-1.5553
Al 308.215	120987	ppb	480.539	0.4	1029703

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<b>Label</b>	<b>Sol'n Conc.</b>	<b>Units</b>	<b>SD</b>	<b>%RSD</b>	<b>Int. (c/s)</b>
As 188.980	150.809	ppb	4.9853	3.3	162.059
B 249.678	20.8702	ppb	0.4244	2.0	-374.147
Ba 389.178	717.795	ppb	2.8585	0.4	23820.6
Be 313.042	6.2098	ppb	0.0222	0.4	15979.9
Ca 370.602	127618	ppb	340.1	0.3	698967
Cd 226.502	-1.6490	ppb	0.0292	1.8	1890.18
Co 228.615	69.6139	ppb	2.0070	2.9	1349.67
Cr 267.716	580.806	ppb	1.1692	0.2	47283.0
Cu 324.754	308.151	ppb	3.7685	1.2	21294.4
Fe 271.441	327383	ppb	1578.04	0.5	884125
K 766.491	3663.59	ppb	12.8423	0.4	227001
Mg 279.078	20240.3	ppb	47.6994	0.2	105649
Mn 257.610	17664.9	ppb	113.624	0.6	5990658
Mo 202.032	23.0907	ppb	0.6058	2.6	215.700
Na 330.237	220.529	ppb	116.507	52.8	66.0344
Ni 231.604	102.918	ppb	1.6213	1.6	573.312
Pb 220.353	460.070	ppb	2.8503	0.6	1614.59
Sb 206.834	-15.0659	ppb	2.6290	17.5	17.2981
Se 196.026	12.7002	ppb	3.0736	24.2	4.3724
Sn 189.925	28.8853	ppb	1.5584	5.4	16.5458
Sr 216.596	168.578	ppb	1.1424	0.7	4851.35
Ti 334.941	1575.02	ppb	5.4428	0.3	520584
Tl 190.794	15.8323	ppb	1.1633	7.3	-55.4143
V 292.401	502.331	ppb	1.2765	0.3	19189.1
Zn 206.200	840.502	ppb	4.0029	0.5	2519.22

680-115692-a-68-b (Samp)      8/20/2015, 5:47:04 AM      Rack 4, Tube 6  
 Weight: 1      Volume: 1      Dilution: 1

<b>Label</b>	<b>Replicates</b>	<b>Concentration</b>
Ag 328.068	-2.1313u	-1.5345u
Al 308.215	112561	111818
As 188.980	37.8486	36.4272
B 249.678	1.4174u	1.3717u
Ba 389.178	292.703	289.342
Be 313.042	7.9468	7.9124
Ca 370.602	20121	20093
Cd 226.502	-0.9309	-0.9655
Co 228.615	22.7968	22.1918
Cr 267.716	164.043	163.660
Cu 324.754	22.1886	23.1478
Fe 271.441	133293	132635
K 766.491	2009.74	1996.81
Mg 279.078	12346.7	12306.6
Mn 257.610	942.153	939.033
Mo 202.032	1.0378	1.5285
Na 330.237	-185.873u	-323.473u
Ni 231.604	39.3441	39.9669
Pb 220.353	87.2328	89.4873
Sb 206.834	-7.0449u	-9.2044u
Se 196.026	0.4160u	2.6128
Sn 189.925	16.9863	15.0230
Sr 216.596	43.4147	43.5506
Ti 334.941	402.904	401.636

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Label	Replicates Concentration			
Tl 190.794	6.4023u	3.0247u	6.6838u	
V 292.401	233.712	232.462	236.196	
Zn 206.200	139.885	140.245	144.459	

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-1.8562	ppb	0.3011	16.2	-185.299
Al 308.215	112839	ppb	1184.53	1.0	960346
As 188.980	36.8530	ppb	0.8653	2.3	29.4784
B 249.678	1.1720	ppb	0.3862	33.0	-238.581
Ba 389.178	292.164	ppb	2.5940	0.9	9580.05
Be 313.042	7.9717	ppb	0.0749	0.9	20632.2
Ca 370.602	20263	ppb	270.8	1.3	109011
Cd 226.502	-0.9813	ppb	0.0599	6.1	799.957
Co 228.615	22.3541	ppb	0.3879	1.7	380.436
Cr 267.716	165.036	ppb	2.0605	1.2	13452.6
Cu 324.754	22.9825	ppb	0.7255	3.2	1834.24
Fe 271.441	133695	ppb	1307.74	1.0	361144
K 766.491	2010.34	ppb	13.8342	0.7	124802
Mg 279.078	12394.9	ppb	119.983	1.0	65106.5
Mn 257.610	946.279	ppb	9.9708	1.1	321619
Mo 202.032	1.5143	ppb	0.4696	31.0	32.6083
Na 330.237	-228.075	ppb	82.7997	36.3	108.758
Ni 231.604	39.4287	ppb	0.5013	1.3	214.643
Pb 220.353	89.9524	ppb	2.9796	3.3	374.061
Sb 206.834	-11.4931	ppb	5.9335	51.6	20.8887
Se 196.026	0.6355	ppb	1.8772	295.4	-10.0337
Sn 189.925	15.7693	ppb	1.0630	6.7	-4.7170
Sr 216.596	43.9101	ppb	0.7436	1.7	1432.08
Ti 334.941	404.731	ppb	4.3093	1.1	133804
Tl 190.794	5.3703	ppb	2.0362	37.9	-60.3076
V 292.401	234.124	ppb	1.9009	0.8	8933.36
Zn 206.200	141.530	ppb	2.5430	1.8	425.025

680-115692-a-63-b (Samp)      8/20/2015, 5:51:42 AM      Rack 4, Tube 7  
 Weight: 1      Volume: 1      Dilution: 1

Label	Replicates Concentration			
Ag 328.068	-6.1463u	-5.5741u	-7.8677u	
Al 308.215	154149	154074	153941	
As 188.980	551.935	549.957	549.456	
B 249.678	-60.1261u	-58.0125u	-60.1483u	
Ba 389.178	7121.26	7112.04	7122.33	
Be 313.042	34.1873	34.2119	34.1305	
Ca 370.602	15002	14972	14962	
Cd 226.502	-9.6804	-8.9416	-8.5233	
Co 228.615	534.958	547.864	553.508	
Cr 267.716	792.234	790.277	796.502	
Cu 324.754	75.4283	79.0826	76.7567	
Fe 271.441	1450492x	1451709x	1450324x	
K 766.491	1017.20	1020.42	1012.33	
Mg 279.078	8658.92	8660.79	8658.56	
Mn 257.610	91244.60	75888.80	91849.40	
Mo 202.032	12.7786	14.0456	13.9103	
Na 330.237	-2208.04u	-2097.75u	-2259.71u	

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Label	Replicates Concentration			
Ni 231.604	159.647	155.416	157.635	
Pb 220.353	638.164	639.107	640.235	
Sb 206.834	-51.3128u	-52.2825u	-50.6838u	
Se 196.026	42.2975	42.4670	41.7129	
Sn 189.925	20.7745	17.8444	24.4968	
Sr 216.596	-16.8812	-17.7442	-15.6347	
Ti 334.941	898.145	896.067	894.521	
Tl 190.794	67.6021u	62.0575u	64.5835u	
V 292.401	1848.54	1855.22	1853.30	
Zn 206.200	909.927	906.939	908.036	

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-6.5293b	ppb	1.1938	18.3	-380.589
Al 308.215	154055b	ppb	105.214	0.1	1311243
As 188.980	550.449b	ppb	1.3106	0.2	621.923
B 249.678	-59.4289b	ppb	1.2268	2.1	-4925.60
Ba 389.178	7118.54b	ppb	5.6558	0.1	236209
Be 313.042	34.1766b	ppb	0.0417	0.1	90728.5
Ca 370.602	14979b	ppb	20.58	0.1	52491
Cd 226.502	-9.0484b	ppb	0.5859	6.5	7938.37
Co 228.615	545.443b	ppb	9.5089	1.7	10685.7
Cr 267.716	793.004b	ppb	3.1833	0.4	65366.9
Cu 324.754	77.0892b	ppb	1.8497	2.4	6016.40
Fe 271.441	1450842xb	ppb	755.958	0.1	3917607
K 766.491	1016.65b	ppb	4.0731	0.4	63375.3
Mg 279.078	8659.42b	ppb	1.1964	0.0	42050.3
Mn 257.610	86327.60xb	ppb	9045.33	10.5	29274078
Mo 202.032	13.5781b	ppb	0.6957	5.1	57.7753
Na 330.237	-2188.50b	ppb	82.7277	3.8	-594.789
Ni 231.604	157.566b	ppb	2.1160	1.3	970.674
Pb 220.353	639.169b	ppb	1.0371	0.2	2414.23
Sb 206.834	-51.4264b	ppb	0.8054	1.6	-62.7708
Se 196.026	42.1591b	ppb	0.3956	0.9	45.3753
Sn 189.925	21.0386b	ppb	3.3341	15.8	3.8191
Sr 216.596	-16.7534b	ppb	1.0605	6.3	3417.24
Ti 334.941	896.244b	ppb	1.8186	0.2	296401
Tl 190.794	64.7477b	ppb	2.7759	4.3	-72.8696
V 292.401	1852.35b	ppb	3.4358	0.2	70891.4
Zn 206.200	908.300b	ppb	1.5113	0.2	2720.86

680-115692-a-38-b (Samp)      8/20/2015, 5:56:20 AM      Rack 4, Tube 8  
 Weight: 1      Volume: 1      Dilution: 1

Label	Replicates Concentration		
Ag 328.068	-1.1706u	-3.1349u	-1.8232u
Al 308.215	141071	141820	142151
As 188.980	177.276	180.809	180.781
B 249.678	15.8795u	15.1714u	15.5016u
Ba 389.178	2115.24	2113.85	2117.43
Be 313.042	13.2459	13.2695	13.3061
Ca 370.602	173163	172922	173456
Cd 226.502	-0.1712	-0.4001	-0.3818
Co 228.615	121.093	124.510	121.831
Cr 267.716	467.919	468.785	470.060

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Label	Replicates Concentration		
Cu 324.754	159.687	162.417	159.203
Fe 271.441	443190	441548	441668
K 766.491	6178.78	6180.80	6191.77
Mg 279.078	15216.0	15182.5	15201.1
Mn 257.610	27013.2x	27022.6x	27015.2x
Mo 202.032	11.5069	11.3826	11.6370
Na 330.237	-367.540u	-768.682u	-653.568u
Ni 231.604	77.9815	75.5015	75.2412
Pb 220.353	459.666	460.701	462.351
Sb 206.834	-18.5596u	-21.5909u	-17.4059u
Se 196.026	23.0755	17.6343	15.9660
Sn 189.925	29.5237	30.4899	30.1991
Sr 216.596	343.216	341.997	342.364
Ti 334.941	4154.37	4158.76	4168.54
Tl 190.794	28.4179	26.2595	24.8667
V 292.401	752.611	754.168	754.573
Zn 206.200	871.104	868.484	867.156

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-2.0429	ppb	1.0004	49.0	-121.233
Al 308.215	141680	ppb	553.627	0.4	1205733
As 188.980	179.622	ppb	2.0319	1.1	194.832
B 249.678	15.5175	ppb	0.3543	2.3	-783.580
Ba 389.178	2115.51	ppb	1.8046	0.1	70087.3
Be 313.042	13.2738	ppb	0.0304	0.2	34899.1
Ca 370.602	173180	ppb	267.1	0.2	950446
Cd 226.502	-0.3177	ppb	0.1272	40.0	2679.59
Co 228.615	122.478	ppb	1.7982	1.5	2483.69
Cr 267.716	468.922	ppb	1.0772	0.2	38350.0
Cu 324.754	160.435	ppb	1.7329	1.1	11294.6
Fe 271.441	442136	ppb	915.548	0.2	1193974
K 766.491	6183.79	ppb	6.9906	0.1	382793
Mg 279.078	15199.9	ppb	16.7835	0.1	78782.0
Mn 257.610	27017.0x	ppb	4.9867	0.0	9161711
Mo 202.032	11.5088	ppb	0.1272	1.1	103.273
Na 330.237	-596.597	ppb	206.551	34.6	-49.3479
Ni 231.604	76.2414	ppb	1.5126	2.0	440.815
Pb 220.353	460.906	ppb	1.3541	0.3	1637.19
Sb 206.834	-19.1855	ppb	2.1615	11.3	6.4684
Se 196.026	18.8920	ppb	3.7178	19.7	11.9470
Sn 189.925	30.0709	ppb	0.4957	1.6	18.4671
Sr 216.596	342.526	ppb	0.6252	0.2	9225.99
Ti 334.941	4160.56	ppb	7.2571	0.2	1375021
Tl 190.794	26.5147	ppb	1.7893	6.7	-44.2235
V 292.401	753.784	ppb	1.0355	0.1	28859.1
Zn 206.200	868.915	ppb	2.0087	0.2	2605.40

680-115692-a-64-b (Samp)      8/20/2015, 6:00:57 AM      Rack 4, Tube 9  
 Weight: 1      Volume: 1      Dilution: 1

Label	Replicates Concentration		
Ag 328.068	-5.0028u	-5.7970u	-4.5898u
Al 308.215	158506	157179	158316
As 188.980	479.915	478.880	484.462

Label	Replicates	Concentration				
B 249.678	-60.7786u	-60.9695u	-62.6996u			
Ba 389.178	9290.37	9261.84	9284.70			
Be 313.042	28.7750	28.7830	28.8212			
Ca 370.602	14514	14533	14534			
Cd 226.502	-9.4510	-10.2078	-10.1716			
Co 228.615	488.241	483.479	493.185			
Cr 267.716	770.009	772.163	768.652			
Cu 324.754	54.7590	50.9766	56.2787			
Fe 271.441	1341921x	1341413x	1341601x			
K 766.491	1338.74	1333.37	1334.80			
Mg 279.078	9328.19	9303.20	9323.84			
Mn 257.610	96512.7o	96266.3o	96075.6o			
Mo 202.032	12.5465	11.7445	10.8339			
Na 330.237	-1944.39u	-1653.17u	-1828.57u			
Ni 231.604	123.386	121.629	121.594			
Pb 220.353	715.687	715.766	709.543			
Sb 206.834	-54.1366u	-48.7911u	-54.3563u			
Se 196.026	28.3180	41.4722	43.7377			
Sn 189.925	17.9458	22.7176	17.0395			
Sr 216.596	-29.6071	-31.4977	-30.1029			
Ti 334.941	846.173	845.421	848.426			
Tl 190.794	70.7445	67.1687	66.9438			
V 292.401	1602.61	1597.76	1601.21			
Zn 206.200	444.513	446.115	445.529			

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-5.1299b	ppb	0.6136	12.0	-166.188
Al 308.215	158000b	ppb	717.808	0.5	1344751
As 188.980	481.086b	ppb	2.9694	0.6	541.124
B 249.678	-61.4826b	ppb	1.0583	1.7	-4671.95
Ba 389.178	9278.97b	ppb	15.1044	0.2	307509
Be 313.042	28.7931b	ppb	0.0247	0.1	76318.3
Ca 370.602	14527b	ppb	11.20	0.1	53134
Cd 226.502	-9.9435b	ppb	0.4269	4.3	7204.19
Co 228.615	488.302b	ppb	4.8530	1.0	9558.95
Cr 267.716	770.274b	ppb	1.7705	0.2	63565.2
Cu 324.754	54.0047b	ppb	2.7303	5.1	4406.62
Fe 271.441	1341645xb	ppb	256.867	0.0	3622757
K 766.491	1335.63b	ppb	2.7794	0.2	83094.1
Mg 279.078	9318.41b	ppb	13.3538	0.1	45090.9
Mn 257.610	96284.9oxb	ppb	219.150	0.2	32649338
Mo 202.032	11.7083b	ppb	0.8569	7.3	48.0258
Na 330.237	-1808.71b	ppb	146.619	8.1	-517.488
Ni 231.604	122.203b	ppb	1.0242	0.8	770.831
Pb 220.353	713.665b	ppb	3.5705	0.5	2642.06
Sb 206.834	-52.4280b	ppb	3.1516	6.0	-62.5160
Se 196.026	37.8426b	ppb	8.3260	22.0	46.9324
Sn 189.925	19.2343b	ppb	3.0505	15.9	0.8947
Sr 216.596	-30.4025b	ppb	0.9803	3.2	2814.38
Ti 334.941	846.673b	ppb	1.5636	0.2	280006
Tl 190.794	68.2857b	ppb	2.1323	3.1	-41.2559
V 292.401	1600.53b	ppb	2.4945	0.2	61245.3
Zn 206.200	445.386b	ppb	0.8109	0.2	1331.86

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680-115692-a-65-b (Samp)	8/20/2015, 6:05:36 AM	Rack 4, Tube 10			
Weight: 1	Volume: 1	Dilution: 1			
Label	Replicates	Concentration			
Ag 328.068	-4.0350u	-3.0467u -3.0309u			
Al 308.215	157036	156559 157360			
As 188.980	682.722	686.073 687.462			
B 249.678	-7.4431u	-6.9540u -7.8276u			
Ba 389.178	208.299	208.099 208.641			
Be 313.042	10.1764	10.1249 10.1861			
Ca 370.602	16714	16628 16752			
Cd 226.502	-3.3651	-3.5238 -3.3792			
Co 228.615	130.257	129.208 128.960			
Cr 267.716	192.436	191.952 193.239			
Cu 324.754	793.084	785.524 775.875			
Fe 271.441	411026	409562 411289			
K 766.491	8714.31	8696.59 8688.02			
Mg 279.078	7224.72	7213.90 7264.22			
Mn 257.610	5782.19	5785.01 5811.63			
Mo 202.032	16.4993	16.1323 15.2011			
Na 330.237	-620.050u	-670.280u -815.648u			
Ni 231.604	199.222	198.670 202.909			
Pb 220.353	455.848	456.533 463.465			
Sb 206.834	-11.1539u	-18.7093u -15.1665u			
Se 196.026	14.3957	17.5156 11.5287			
Sn 189.925	25.0781	23.1748 20.0004			
Sr 216.596	14.0065	13.6682 15.1886			
Ti 334.941	843.473	839.408 845.423			
Tl 190.794	17.3549u	26.1289u 14.3693u			
V 292.401	519.912	519.655 520.329			
Zn 206.200	748.297	746.987 751.189			
Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-3.3708	ppb	0.5752	17.1	-351.657
Al 308.215	156985	ppb	402.527	0.3	1335852
As 188.980	685.419	ppb	2.4367	0.4	793.668
B 249.678	-7.4082	ppb	0.4378	5.9	-1143.39
Ba 389.178	208.346	ppb	0.2739	0.1	7022.84
Be 313.042	10.1625	ppb	0.0329	0.3	26502.8
Ca 370.602	16698	ppb	63.56	0.4	83219
Cd 226.502	-3.4227	ppb	0.0878	2.6	2233.09
Co 228.615	129.475	ppb	0.6882	0.5	2501.69
Cr 267.716	192.543	ppb	0.6501	0.3	15819.8
Cu 324.754	784.828	ppb	8.6252	1.1	53731.6
Fe 271.441	410626	ppb	930.504	0.2	1108892
K 766.491	8699.64	ppb	13.4072	0.2	538316
Mg 279.078	7234.28	ppb	26.4904	0.4	37769.6
Mn 257.610	5792.94	ppb	16.2432	0.3	1965982
Mo 202.032	15.9442	ppb	0.6692	4.2	145.747
Na 330.237	-701.992	ppb	101.582	14.5	-44.9085
Ni 231.604	200.267	ppb	2.3047	1.2	1103.18
Pb 220.353	458.615	ppb	4.2140	0.9	1618.35
Sb 206.834	-15.0099	ppb	3.7802	25.2	9.4521
Se 196.026	14.4800	ppb	2.9943	20.7	0.5125
Sn 189.925	22.7511	ppb	2.5653	11.3	6.6003
Sr 216.596	14.2878	ppb	0.7982	5.6	1446.72

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Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ti 334.941	842.768	ppb	3.0689	0.4	278589
Tl 190.794	19.2844	ppb	6.1126	31.7	-71.7677
V 292.401	519.966	ppb	0.3399	0.1	19882.8
Zn 206.200	748.824	ppb	2.1499	0.3	2247.28

680-115692-a-37-b (Samp)      8/20/2015, 6:10:14 AM      Rack 4, Tube 11  
 Weight: 1      Volume: 1      Dilution: 1

Label	Replicates	Concentration			
Ag 328.068	0.1107u	-0.2864u	0.0321u		
Al 308.215	106712	106802	107870		
As 188.980	295.853	299.713	305.915		
B 249.678	-23.9477u	-23.2965u	-22.6983u		
Ba 389.178	103.672	103.301	105.125		
Be 313.042	3.5690	3.5701	3.5899		
Ca 370.602	9569	9588	9668		
Cd 226.502	-7.0240	-6.8745	-6.5665		
Co 228.615	42.2974	45.2005	42.3610		
Cr 267.716	1114.90	1114.32	1119.90		
Cu 324.754	97.1626	96.7444	96.5388		
Fe 271.441	626438	628023	631396		
K 766.491	2096.89	2105.42	2111.55		
Mg 279.078	3031.95	3043.18	3052.66		
Mn 257.610	3845.72	3856.26	3873.17		
Mo 202.032	15.0647	15.7189	13.9751		
Na 330.237	-931.875u	-946.829u	-1171.53u		
Ni 231.604	36.4325	34.9170	35.6016		
Pb 220.353	146.496	147.950	147.230		
Sb 206.834	-19.4734u	-21.3763u	-18.9866u		
Se 196.026	22.4690	20.0352	18.3295		
Sn 189.925	24.7045	22.3941	20.7829		
Sr 216.596	-3.7673	-3.7744	-4.5093		
Ti 334.941	1939.31	1942.73	1957.66		
Tl 190.794	23.6440u	21.5105u	25.2353u		
V 292.401	1053.24	1056.11	1060.30		
Zn 206.200	187.810	185.396	189.087		

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.0479	ppb	0.2103	439.2	-87.3274
Al 308.215	107128	ppb	644.021	0.6	911957
As 188.980	300.494	ppb	5.0767	1.7	335.688
B 249.678	-23.3141	ppb	0.6249	2.7	-2032.42
Ba 389.178	104.033	ppb	0.9636	0.9	3743.90
Be 313.042	3.5764	ppb	0.0118	0.3	8930.75
Ca 370.602	9609	ppb	52.68	0.5	39628
Cd 226.502	-6.8217	ppb	0.2333	3.4	3227.67
Co 228.615	43.2863	ppb	1.6580	3.8	833.896
Cr 267.716	1116.37	ppb	3.0674	0.3	90617.1
Cu 324.754	96.8153	ppb	0.3178	0.3	7040.15
Fe 271.441	628619	ppb	2532.14	0.4	1697478
K 766.491	2104.62	ppb	7.3638	0.3	130631
Mg 279.078	3042.60	ppb	10.3709	0.3	15862.0
Mn 257.610	3858.38	ppb	13.8496	0.4	1311082
Mo 202.032	14.9196	ppb	0.8809	5.9	122.149

E08192015.wvq. All Data Report 8/20/2015, 3:03:52 PM

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Na 330.237	-1016.74	ppb	134.256	13.2	-159.705
Ni 231.604	35.6504	ppb	0.7589	2.1	241.047
Pb 220.353	147.225	ppb	0.7272	0.5	643.887
Sb 206.834	-19.9454	ppb	1.2628	6.3	11.7738
Se 196.026	20.2779	ppb	2.0804	10.3	2.6118
Sn 189.925	22.6272	ppb	1.9711	8.7	6.3985
Sr 216.596	-4.0170	ppb	0.4264	10.6	1591.38
Ti 334.941	1946.57	ppb	9.7573	0.5	643373
Tl 190.794	23.4633	ppb	1.8689	8.0	-98.2098
V 292.401	1056.55	ppb	3.5506	0.3	40394.1
Zn 206.200	187.431	ppb	1.8741	1.0	554.933

680-115692-a-70-b (Samp)

8/20/2015, 6:14:52 AM

Rack 4, Tube 12

Weight: 1

Volume: 1

Dilution: 1

Label	Replicates	Concentration			
Ag 328.068	-1.1094u	-1.6389u	-1.0043u		
Al 308.215	132120	132392	131783		
As 188.980	217.560	215.676	219.953		
B 249.678	-26.6679u	-27.8151u	-27.0211u		
Ba 389.178	831.584	834.079	830.280		
Be 313.042	12.7454	12.7705	12.7400		
Ca 370.602	15078	15153	15088		
Cd 226.502	-6.3057	-6.1359	-6.3270		
Co 228.615	141.973	143.014	141.694		
Cr 267.716	424.083	425.934	423.922		
Cu 324.754	29.4082	27.7971	27.9140		
Fe 271.441	658828	663025	659751		
K 766.491	2106.21	2114.62	2103.22		
Mg 279.078	12356.0	12390.0	12330.3		
Mn 257.610	12659.3	12997.0	12926.5		
Mo 202.032	4.4036u	4.8928	5.6063		
Na 330.237	-478.296u	-723.341u	-759.559u		
Ni 231.604	73.1858	71.3877	72.8644		
Pb 220.353	179.191	186.634	181.936		
Sb 206.834	-25.4557u	-27.1220u	-23.6114u		
Se 196.026	10.2780	15.9526	11.0032		
Sn 189.925	20.2126	17.0115	19.1386		
Sr 216.596	-11.6867	-12.0814	-11.6145		
Ti 334.941	583.891	584.391	580.933		
Tl 190.794	25.2321u	28.1976u	29.7339u		
V 292.401	866.673	869.645	865.363		
Zn 206.200	290.757	289.240	289.092		

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-1.2509	ppb	0.3401	27.2	-155.760
Al 308.215	132098	ppb	304.971	0.2	1124287
As 188.980	217.730	ppb	2.1437	1.0	237.398
B 249.678	-27.1680	ppb	0.5876	2.2	-2191.97
Ba 389.178	831.981	ppb	1.9305	0.2	27845.2
Be 313.042	12.7519	ppb	0.0163	0.1	33440.6
Ca 370.602	15106	ppb	40.57	0.3	68497
Cd 226.502	-6.2562	ppb	0.1047	1.7	3473.28
Co 228.615	142.227	ppb	0.6959	0.5	2736.17

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Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Cr 267.716	424.646	ppb	1.1181	0.3	34738.4
Cu 324.754	28.3731	ppb	0.8983	3.2	2402.34
Fe 271.441	660535	ppb	2205.41	0.3	1783663
K 766.491	2108.02	ppb	5.9131	0.3	130841
Mg 279.078	12358.8	ppb	29.9571	0.2	64427.4
Mn 257.610	12860.9	ppb	178.130	1.4	4363430
Mo 202.032	4.9676	ppb	0.6048	12.2	30.2763
Na 330.237	-653.732	ppb	153.007	23.4	-142.411
Ni 231.604	72.4793	ppb	0.9589	1.3	441.219
Pb 220.353	182.587	ppb	3.7641	2.1	768.087
Sb 206.834	-25.3964	ppb	1.7561	6.9	-9.0081
Se 196.026	12.4113	ppb	3.0883	24.9	-0.2533
Sn 189.925	18.7876	ppb	1.6292	8.7	0.1739
Sr 216.596	-11.7942	ppb	0.2513	2.1	1489.64
Ti 334.941	583.072	ppb	1.8691	0.3	192810
Tl 190.794	27.7212	ppb	2.2884	8.3	-87.5044
V 292.401	867.227	ppb	2.1939	0.3	33172.8
Zn 206.200	289.697	ppb	0.9216	0.3	867.522

Cont Calib Verif (CCV)

8/20/2015, 6:19:30 AM

Rack 4, Tube 13

Weight: 1

Volume: 1

Dilution: 1

Label	Replicates	Concentration					
Ag 328.068	477.589	494.614	481.351				
Al 308.215	4679.13	4696.36	4796.57				
As 188.980	461.482	464.202	476.013				
B 249.678	455.894	460.590	470.183				
Ba 389.178	4789.17	4781.60	4890.85				
Be 313.042	477.051	478.503	489.003				
Ca 370.602	5070	5084	5212				
Cd 226.502	474.388	477.405	485.858				
Co 228.615	471.922	472.970	483.691				
Cr 267.716	4891.37	4925.41	5018.87				
Cu 324.754	5058.56	5012.15	4915.42				
Fe 271.441	4674.58	4694.91	4789.29				
K 766.491	9312.84	9384.50	9532.26				
Mg 279.078	4638.91	4663.21	4755.09				
Mn 257.610	4775.77	4800.13	4901.66				
Mo 202.032	482.579	485.592	495.410				
Na 330.237	6651.92	6352.18	6889.35				
Ni 231.604	2356.45	2366.15	2409.84				
Pb 220.353	468.311	472.057	485.308				
Sb 206.834	954.322	952.979	972.512				
Se 196.026	4573.50	4627.28	4691.61				
Sn 189.925	4602.01	4827.30	4778.82				
Sr 216.596	2372.56	2391.81	2435.35				
Ti 334.941	476.144	477.847	487.364				
Tl 190.794	4782.19	4781.44	4923.54				
V 292.401	4743.20	4745.16	4844.86				
Zn 206.200	2362.28	2366.79	2424.93				

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)	QC Value
Ag 328.068	484.518	ppb	8.9433	1.8	45942.0	96.90356
Al 308.215	4724.02	ppb	63.4188	1.3	41531.4	94.48044

E08192015.wvq. All Data Report 8/20/2015, 3:03:52 PM

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)	QC Value
As 188.980	467.233	ppb	7.7247	1.7	539.896	93.44653
B 249.678	462.222	ppb	7.2830	1.6	9036.94	92.44444
Ba 389.178	4820.54	ppb	61.0092	1.3	159109	96.41085
Be 313.042	481.519	ppb	6.5218	1.4	1286446	96.30382
Ca 370.602	5122	ppb	77.90	1.5	28860	102.44396
Cd 226.502	479.217	ppb	5.9461	1.2	42411.1	95.84343
Co 228.615	476.194	ppb	6.5132	1.4	9341.30	95.23884
Cr 267.716	4945.22	ppb	66.0170	1.3	400030	98.90437
Cu 324.754	4995.38	ppb	73.0328	1.5	339763	99.90753
Fe 271.441	4719.59	ppb	61.2086	1.3	13076.0	94.39187
K 766.491	9409.87	ppb	111.886	1.2	582220	94.09867
Mg 279.078	4685.74	ppb	61.2789	1.3	24530.3	93.71471
Mn 257.610	4825.85	ppb	66.7712	1.4	1636201	96.51710
Mo 202.032	487.860	ppb	6.7098	1.4	4440.73	97.57207
Na 330.237	6631.15	ppb	269.187	4.1	731.442	88.41528Q
Ni 231.604	2377.48	ppb	28.4399	1.2	12742.5	95.09916
Pb 220.353	475.225	ppb	8.9306	1.9	1609.88	95.04508
Sb 206.834	959.938	ppb	10.9100	1.1	1705.74	95.99378
Se 196.026	4630.80	ppb	59.1334	1.3	3594.30	92.61597
Sn 189.925	4736.05	ppb	118.582	2.5	7647.64	94.72091
Sr 216.596	2399.91	ppb	32.1654	1.3	56176.1	95.99629
Ti 334.941	480.452	ppb	6.0465	1.3	158787	96.09030
Tl 190.794	4829.06	ppb	81.8257	1.7	8920.30	96.58121
V 292.401	4777.74	ppb	58.1358	1.2	182569	95.55479
Zn 206.200	2384.67	ppb	34.9404	1.5	7117.42	95.38663

Cont Calib Blank (CCB) 8/20/2015, 6:24:08 AM

Weight: 1 Volume: 1

Rack 4, Tube 14

Dilution: 1

Label	Replicates	Concentration
Ag 328.068	-0.3347u	-0.1147u
Al 308.215	-19.8352u	-20.8714u
As 188.980	0.2783	1.1468
B 249.678	3.4360	3.4877
Ba 389.178	1.7516	0.8495
Be 313.042	0.0265	0.0281
Ca 370.602	5.941	7.026
Cd 226.502	0.2934	0.3488
Co 228.615	1.1241	1.3078
Cr 267.716	-0.1030u	-0.2335u
Cu 324.754	-1.4587u	0.3774
Fe 271.441	-9.7545u	-13.0767u
K 766.491	-0.9066u	-0.3995u
Mg 279.078	-5.0376u	-0.9355u
Mn 257.610	0.0693	-0.0294u
Mo 202.032	-0.2687u	0.3918
Na 330.237	-91.7298u	-273.376u
Ni 231.604	1.7990	1.2123
Pb 220.353	-1.4567u	0.8812
Sb 206.834	-8.3738u	-4.1415u
Se 196.026	1.7945	-1.9167u
Sn 189.925	2.5435	0.7412
Sr 216.596	-0.0557u	-0.0537u
Ti 334.941	0.0638	0.0541

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Label	Replicates Concentration	
Tl 190.794	1.7506	2.5827 -1.0079u
V 292.401	0.2108	0.4123 0.7034
Zn 206.200	0.5051	0.0087 1.0480

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)	QC Value
Ag 328.068	0.0522	ppb	0.4920	943.3	16.4720	0.05216
Al 308.215	-20.6041	ppb	0.6761	3.3	516.121	-20.60411
As 188.980	1.6268	ppb	1.6420	100.9	-10.6536	1.62681
B 249.678	3.2715	ppb	0.3308	10.1	158.796	3.27149
Ba 389.178	1.5755	ppb	0.6560	41.6	-160.674	1.57552
Be 313.042	0.0275	ppb	0.0009	3.1	-637.911	0.02751
Ca 370.602	5.328	ppb	2.074	38.9	-5.385	5.32781
Cd 226.502	0.3285	ppb	0.0305	9.3	120.015	0.32847
Co 228.615	0.9957	ppb	0.3924	39.4	-51.7245	0.99566
Cr 267.716	-0.1445	ppb	0.0771	53.4	31.7215	-0.14449
Cu 324.754	-0.4287	ppb	0.9383	218.9	192.540	-0.42872
Fe 271.441	-8.7191	ppb	4.9570	56.9	131.863	-8.71912
K 766.491	-0.8459	ppb	0.4194	49.6	476.658	-0.84591
Mg 279.078	-2.7977	ppb	2.0769	74.2	95.0474	-2.79770
Mn 257.610	0.0248	ppb	0.0500	202.0	45.3520	0.02476
Mo 202.032	0.1617	ppb	0.3730	230.8	28.9919	0.16166
Na 330.237	-239.290	ppb	133.813	55.9	162.715	-239.28958
Ni 231.604	1.4360	ppb	0.3172	22.1	-1.7879	1.43600
Pb 220.353	-0.7551	ppb	1.4218	188.3	60.0583	-0.75510
Sb 206.834	-4.5807	ppb	3.5936	78.5	32.4602	-4.58074
Se 196.026	2.7331	ppb	5.1832	189.6	-7.7525	2.73310
Sn 189.925	2.3961	ppb	1.5864	66.2	-26.3967	2.39611
Sr 216.596	-0.1672	ppb	0.1948	116.5	54.8620	-0.16715
Ti 334.941	0.0254	ppb	0.0584	229.9	13.4537	0.02539
Tl 190.794	1.1085	ppb	1.8795	169.6	-49.1578	1.10847
V 292.401	0.4422	ppb	0.2477	56.0	-11.7910	0.44218
Zn 206.200	0.5206	ppb	0.5198	99.8	3.2199	0.52062

mb 680-396835/1-a (Samp)      8/20/2015, 6:28:46 AM      Rack 4, Tube 15  
 Weight: 1      Volume: 1      Dilution: 1

Label	Replicates Concentration	
Ag 328.068	0.2284	-0.4840u 0.1674
Al 308.215	-11.9161u	-14.1226u -9.4149u
As 188.980	2.3375	-1.5736u -2.8728u
B 249.678	1.6351	0.9749 1.4622
Ba 389.178	0.9641	0.5757 0.6840
Be 313.042	0.0229	0.0184 0.0131
Ca 370.602	38.71	39.42 38.60
Cd 226.502	0.4563	0.4552 0.5246
Co 228.615	1.1069	0.3421 0.4244
Cr 267.716	0.0571	0.4054 0.1781
Cu 324.754	-1.0264u	-0.8615u -0.3224u
Fe 271.441	5.7042	1.1701 6.9679
K 766.491	7.4616	7.2419 8.2558
Mg 279.078	2.3464	2.2932 -0.6367u
Mn 257.610	0.2724	0.2862 0.3440
Mo 202.032	0.4276	0.0183 -0.3001u
Na 330.237	-68.4159u	-184.091u 67.4295

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Label	Replicates Concentration		
Ni 231.604	2.0555	1.0770	0.6785
Pb 220.353	-0.3516u	-2.8741u	0.1113
Sb 206.834	-3.0271u	-2.3970u	-7.5434u
Se 196.026	-0.7664u	2.4582	-2.6265u
Sn 189.925	9.3736	12.4910	9.5222
Sr 216.596	0.7028	-0.1747u	0.2879
Ti 334.941	0.2505	0.1593	0.2590
Tl 190.794	2.3586	1.3704	-0.5591u
V 292.401	-0.0330u	0.3708	0.2622
Zn 206.200	1.7158	2.8140	1.7104

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.0294	ppb	0.3949	1343.6	8.7043
Al 308.215	-11.8179	ppb	2.3554	19.9	590.807
As 188.980	-0.7030	ppb	2.7121	385.8	-13.4104
B 249.678	1.3574	ppb	0.3423	25.2	121.730
Ba 389.178	0.7412	ppb	0.2004	27.0	-188.224
Be 313.042	0.0181	ppb	0.0049	27.2	-662.988
Ca 370.602	38.91	ppb	0.4430	1.1	179.8
Cd 226.502	0.4787	ppb	0.0397	8.3	133.371
Co 228.615	0.6245	ppb	0.4198	67.2	-59.0545
Cr 267.716	0.2135	ppb	0.1768	82.8	60.6983
Cu 324.754	-0.7368	ppb	0.3682	50.0	171.606
Fe 271.441	4.6141	ppb	3.0488	66.1	167.791
K 766.491	7.6531	ppb	0.5334	7.0	1002.04
Mg 279.078	1.3343	ppb	1.7071	127.9	116.737
Mn 257.610	0.3009	ppb	0.0380	12.6	139.068
Mo 202.032	0.0486	ppb	0.3648	750.6	27.9669
Na 330.237	-61.6926	ppb	125.895	204.1	177.540
Ni 231.604	1.2703	ppb	0.7086	55.8	-2.6732
Pb 220.353	-1.0381	ppb	1.6067	154.8	59.1425
Sb 206.834	-4.3225	ppb	2.8071	64.9	32.8992
Se 196.026	-0.3116	ppb	2.5727	825.7	-10.1210
Sn 189.925	10.4622	ppb	1.7585	16.8	-13.3200
Sr 216.596	0.2720	ppb	0.4389	161.4	65.1959
Ti 334.941	0.2230	ppb	0.0553	24.8	78.7356
Tl 190.794	1.0566	ppb	1.4839	140.4	-49.2585
V 292.401	0.2000	ppb	0.2090	104.5	-21.0539
Zn 206.200	2.0801	ppb	0.6356	30.6	7.8969

lcs 680-396835/2-a (Samp) 8/20/2015, 6:33:23 AM Rack 4, Tube 16  
 Weight: 1 Volume: 1 Dilution: 1

Label	Replicates Concentration		
Ag 328.068	48.1378	47.0963	47.7940
Al 308.215	4559.55	4593.60	4512.85
As 188.980	99.1416	96.0232	94.0943
B 249.678	177.648	178.909	175.645
Ba 389.178	96.3419	96.7275	95.2838
Be 313.042	49.3263	49.5937	48.8189
Ca 370.602	4874	4918	4829
Cd 226.502	48.7876	49.2287	48.2767
Co 228.615	48.9676	49.5329	49.0173
Cr 267.716	98.1233	98.5331	96.9994

E08192015.wvq. All Data Report 8/20/2015, 3:03:52 PM

Label	Replicates	Concentration
Cu 324.754	98.7520	97.7129
Fe 271.441	4592.65	4607.42
K 766.491	4615.36	4652.08
Mg 279.078	4476.60	4494.87
Mn 257.610	477.142	478.809
Mo 202.032	94.7441	95.5151
Na 330.237	4287.77	4111.91
Ni 231.604	95.9152	96.9318
Pb 220.353	456.058	459.652
Sb 206.834	43.6292	39.3575
Se 196.026	94.9509	93.5015
Sn 189.925	197.309	200.239
Sr 216.596	94.3836	93.4217
Ti 334.941	96.0796	96.4455
Tl 190.794	40.3400	42.3543
V 292.401	95.2510	96.1161
Zn 206.200	96.0355	95.2858
		92.8937

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	47.6760	ppb	0.5307	1.1	4534.53
Al 308.215	4555.33	ppb	40.5387	0.9	39449.0
As 188.980	96.4197	ppb	2.5469	2.6	101.394
B 249.678	177.400	ppb	1.6462	0.9	3514.33
Ba 389.178	96.1178	ppb	0.7475	0.8	2978.76
Be 313.042	49.2463	ppb	0.3935	0.8	130890
Ca 370.602	4874	ppb	44.46	0.9	26875
Cd 226.502	48.7643	ppb	0.4764	1.0	4421.78
Co 228.615	49.1726	ppb	0.3130	0.6	898.284
Cr 267.716	97.8853	ppb	0.7941	0.8	7965.10
Cu 324.754	98.4751	ppb	0.6683	0.7	6920.11
Fe 271.441	4578.29	ppb	38.3848	0.8	12527.2
K 766.491	4610.85	ppb	43.6721	0.9	285558
Mg 279.078	4461.96	ppb	42.1744	0.9	23528.3
Mn 257.610	475.686	ppb	4.0508	0.9	161381
Mo 202.032	94.8719	ppb	0.5898	0.6	886.727
Na 330.237	4267.64	ppb	146.711	3.4	537.135
Ni 231.604	95.9086	ppb	1.0265	1.1	505.223
Pb 220.353	456.158	ppb	3.4458	0.8	1544.56
Sb 206.834	43.5722	ppb	4.1864	9.6	112.167
Se 196.026	92.0412	ppb	3.8533	4.2	61.8710
Sn 189.925	198.030	ppb	1.9502	1.0	290.762
Sr 216.596	93.2786	ppb	1.1830	1.3	2250.33
Ti 334.941	95.9303	ppb	0.6039	0.6	31716.1
Tl 190.794	41.3909	ppb	1.0100	2.4	25.5052
V 292.401	95.1635	ppb	0.9993	1.1	3586.04
Zn 206.200	94.7383	ppb	1.6409	1.7	285.161

680-115718-a-1-a (Samp)      8/20/2015, 6:38:01 AM      Rack 4, Tube 17  
 Weight: 1      Volume: 1      Dilution: 1

Label	Replicates	Concentration
Ag 328.068	-0.5309u	-0.7316u
Al 308.215	216840	214577
As 188.980	7.5240	16.1198
		7.4200

Label	Replicates	Concentration				
B 249.678	-12.9274u	-12.8125u	-12.3845u			
Ba 389.178	844.675	834.625	832.326			
Be 313.042	11.6082	11.4779	11.4613			
Ca 370.602	-7.533	-15.23	-36.13			
Cd 226.502	-2.3793	-2.5863	-2.7747			
Co 228.615	218.321	223.912	223.662			
Cr 267.716	534.953	530.919	530.262			
Cu 324.754	294.766	292.181	287.940			
Fe 271.441	328688	325133	325572			
K 766.491	32600.7	32182.1	32199.7			
Mg 279.078	39683.7	39285.0	39239.0			
Mn 257.610	7041.21	6972.45	6973.82			
Mo 202.032	-0.1721u	0.0971u	1.1234u			
Na 330.237	-1690.85u	-1489.80u	-1653.53u			
Ni 231.604	177.572	173.531	173.254			
Pb 220.353	82.8541	83.1282	80.0551			
Sb 206.834	-20.9564u	-18.1037u	-16.5128u			
Se 196.026	4.7774	13.2403	4.0038			
Sn 189.925	19.1667	20.5292	19.3613			
Sr 216.596	-16.6026	-16.3406	-16.4986			
Ti 334.941	12713.4	12708.3	12729.1			
Tl 190.794	23.0597	21.4840u	19.9994u			
V 292.401	994.584	983.499	983.592			
Zn 206.200	320.429	320.071	316.865			

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.7461	ppb	0.2227	29.9	-77.3579
Al 308.215	215173	ppb	1462.92	0.7	1830747
As 188.980	10.3546	ppb	4.9931	48.2	-4.1084
B 249.678	-12.7081	ppb	0.2861	2.3	-1021.62
Ba 389.178	837.209	ppb	6.5674	0.8	27813.7
Be 313.042	11.5158	ppb	0.0804	0.7	30159.0
Ca 370.602	-19.63	ppb	14.80	75.4	3113
Cd 226.502	-2.5801	ppb	0.1978	7.7	1755.71
Co 228.615	221.965	ppb	3.1579	1.4	4766.34
Cr 267.716	532.045	ppb	2.5401	0.5	43290.2
Cu 324.754	291.629	ppb	3.4463	1.2	20163.5
Fe 271.441	326464	ppb	1938.04	0.6	881681
K 766.491	32327.5	ppb	236.757	0.7	1998924
Mg 279.078	39402.5	ppb	244.528	0.6	206675
Mn 257.610	6995.83	ppb	39.3109	0.6	2373787
Mo 202.032	0.3494	ppb	0.6836	195.6	8.9748
Na 330.237	-1611.39	ppb	106.947	6.6	-86.9358
Ni 231.604	174.786	ppb	2.4172	1.4	958.097
Pb 220.353	82.0125	ppb	1.7006	2.1	367.624
Sb 206.834	-18.5243	ppb	2.2515	12.2	11.2442
Se 196.026	7.3405	ppb	5.1240	69.8	-3.9331
Sn 189.925	19.6857	ppb	0.7369	3.7	1.6310
Sr 216.596	-16.4806	ppb	0.1319	0.8	509.672
Ti 334.941	12717.0	ppb	10.8404	0.1	4202647
Tl 190.794	21.5144	ppb	1.5304	7.1	-51.7500
V 292.401	987.225	ppb	6.3733	0.6	37890.4
Zn 206.200	319.122	ppb	1.9627	0.6	954.933

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680-115718-a-1-aSD (Samp)		8/20/2015, 6:42:39 AM		Rack 4, Tube 18	
Weight: 1		Volume: 1		Dilution: 1	
Label	Replicates	Concentration			
Ag 328.068	-0.7525u	-0.5918u	0.5254		
Al 308.215	45985.1	44494.2	43908.8		
As 188.980	2.7831	0.0724u	1.3991		
B 249.678	-2.1279u	-3.4470u	-1.9978u		
Ba 389.178	177.518	172.208	170.444		
Be 313.042	2.4279	2.3710	2.3307		
Ca 370.602	1.967	-0.7697	3.622		
Cd 226.502	-0.2847	-0.3545	-0.4448		
Co 228.615	49.3577	48.3871	47.2768		
Cr 267.716	112.581	109.027	106.516		
Cu 324.754	59.9931	56.7215	55.7246		
Fe 271.441	70828.7	68480.4	67451.4		
K 766.491	6955.09	6749.40	6693.31		
Mg 279.078	8400.75	8124.04	8024.25		
Mn 257.610	1487.29	1441.43	1421.47		
Mo 202.032	-0.0548u	0.7586	0.5937		
Na 330.237	-651.074u	-521.816u	-380.023u		
Ni 231.604	37.1057	36.7318	36.1500		
Pb 220.353	16.2931	16.1111	15.6037		
Sb 206.834	-6.4725u	-7.5611u	-4.3304u		
Se 196.026	0.5532	-1.0838u	1.8619		
Sn 189.925	5.0888	4.1984	6.4140		
Sr 216.596	-2.6677	-3.3376	-3.2044		
Ti 334.941	2760.36	2677.76	2623.07		
Tl 190.794	7.9272	3.8199u	9.4991		
V 292.401	207.678	200.898	197.745		
Zn 206.200	68.0967	66.5052	65.7120		

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.2730	ppb	0.6960	255.0	-18.3872
Al 308.215	44796.0	ppb	1070.57	2.4	381683
As 188.980	1.4182	ppb	1.3554	95.6	-11.6990
B 249.678	-2.5242	ppb	0.8018	31.8	-137.273
Ba 389.178	173.390	ppb	3.6822	2.1	5592.77
Be 313.042	2.3766	ppb	0.0488	2.1	5659.29
Ca 370.602	1.606	ppb	2.218	138.1	660.5
Cd 226.502	-0.3613	ppb	0.0803	22.2	458.690
Co 228.615	48.3405	ppb	1.0412	2.2	979.185
Cr 267.716	109.375	ppb	3.0477	2.8	8934.92
Cu 324.754	57.4797	ppb	2.2330	3.9	4153.92
Fe 271.441	68920.2	ppb	1731.07	2.5	186255
K 766.491	6799.27	ppb	137.831	2.0	420840
Mg 279.078	8183.02	ppb	195.053	2.4	43008.7
Mn 257.610	1450.06	ppb	33.7466	2.3	492063
Mo 202.032	0.4325	ppb	0.4300	99.4	26.8699
Na 330.237	-517.637	ppb	135.574	26.2	110.954
Ni 231.604	36.6625	ppb	0.4816	1.3	193.506
Pb 220.353	16.0026	ppb	0.3573	2.2	122.671
Sb 206.834	-6.1213	ppb	1.6437	26.9	30.2564
Se 196.026	0.4438	ppb	1.4759	332.6	-9.4942
Sn 189.925	5.2337	ppb	1.1149	21.3	-21.7967
Sr 216.596	-3.0699	ppb	0.3546	116	163.662

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Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ti 334.941	2687.06	ppb	69.1186	2.6	888013
Tl 190.794	7.0821	ppb	2.9324	41.4	-46.6576
V 292.401	202.107	ppb	5.0756	2.5	7734.96
Zn 206.200	66.7713	ppb	1.2144	1.8	201.132

680-115718-a-1-aPDS (Samp)    8/20/2015, 6:47:17 AM    Rack 4, Tube 19  
 Weight: 1    Volume: 1    Dilution: 1

Label	Replicates	Concentration				
Ag 328.068	53.2575	56.1210	54.6445			
Al 308.215	215335	213663	213879			
As 188.980	90.0380	94.4808	94.7377			
B 249.678	142.715	142.189	142.327			
Ba 389.178	909.374	906.060	903.912			
Be 313.042	96.7792	96.0553	95.7215			
Ca 370.602	8415	8236	8241			
Cd 226.502	77.6107	77.3397	76.7826			
Co 228.615	284.780	308.212	306.077			
Cr 267.716	620.453	614.628	613.343			
Cu 324.754	374.576	359.512	357.688			
Fe 271.441	333684	331024	329134			
K 766.491	40073.1x	39916.2x	39941.6x			
Mg 279.078	47428.6	46986.4	46845.3			
Mn 257.610	7800.34	7738.79	7720.15			
Mo 202.032	83.7453	82.1512	82.6546			
Na 330.237	6255.85	6024.58	5720.85			
Ni 231.604	255.345	255.499	248.591			
Pb 220.353	162.448	158.237	158.891			
Sb 206.834	71.4155	63.5255	70.4306			
Se 196.026	93.9412	86.5299	99.6277			
Sn 189.925	101.944	101.768	104.071			
Sr 216.596	63.4371	62.7155	62.9304			
Ti 334.941	13086.8	13051.6	13021.1			
Tl 190.794	33.9007	40.5780	32.5210			
V 292.401	1068.49	1060.71	1059.70			
Zn 206.200	399.827	395.187	394.285			

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	54.6743b	ppb	1.4320	2.6	5182.56
Al 308.215	214292b	ppb	909.305	0.4	1823270
As 188.980	93.0855b	ppb	2.6423	2.8	93.6732
B 249.678	142.410b	ppb	0.2727	0.2	1966.52
Ba 389.178	906.449b	ppb	2.7517	0.3	30124.6
Be 313.042	96.1854b	ppb	0.5407	0.6	256432
Ca 370.602	8297b	ppb	101.7	1.2	49215
Cd 226.502	77.2443b	ppb	0.4222	0.5	8827.76
Co 228.615	299.690b	ppb	12.9561	4.3	6308.29
Cr 267.716	616.141b	ppb	3.7892	0.6	50099.0
Cu 324.754	363.925b	ppb	9.2685	2.5	25082.1
Fe 271.441	331281b	ppb	2285.53	0.7	894701
K 766.491	39977.0xb	ppb	84.1938	0.2	2471791
Mg 279.078	47086.8b	ppb	304.349	0.6	247015
Mn 257.610	7753.09b	ppb	41.9656	0.5	2630631
Mo 202.032	82.8504b	ppb	0.8149	1.0	756.101

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Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Na 330.237	6000.42b	ppb	268.316	4.5	546.755
Ni 231.604	253.145b	ppb	3.9444	1.6	1378.55
Pb 220.353	159.859b	ppb	2.2664	1.4	621.053
Sb 206.834	68.4572b	ppb	4.2993	6.3	155.333
Se 196.026	93.3663b	ppb	6.5678	7.0	63.2439
Sn 189.925	102.594b	ppb	1.2817	1.2	136.045
Sr 216.596	63.0277b	ppb	0.3705	0.6	2379.92
Ti 334.941	13053.2b	ppb	32.8900	0.3	4313777
Tl 190.794	35.6666b	ppb	4.3090	12.1	-25.2019
V 292.401	1062.96b	ppb	4.8097	0.5	40767.6
Zn 206.200	396.433b	ppb	2.9736	0.8	1186.27

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Weight: 1      Volume: 1

Rack 4, Tube 20

Dilution: 1

Label	Replicates	Concentration				
Ag 328.068	44.8366	46.6930	45.7020			
Al 308.215	198413	198337	198737			
As 188.980	99.5695	95.1875	96.7350			
B 249.678	147.691	149.716	149.283			
Ba 389.178	920.679	921.774	922.499			
Be 313.042	56.6922	56.8330	57.0746			
Ca 370.602	4388	4405	4424			
Cd 226.502	43.4630	43.0765	43.2470			
Co 228.615	237.321	235.290	231.928			
Cr 267.716	581.172	583.857	586.514			
Cu 324.754	389.074	415.203	424.619			
Fe 271.441	272121	272311	273773			
K 766.491	36202.6x	36208.9x	36220.5x			
Mg 279.078	42744.0	42915.2	42989.0			
Mn 257.610	6724.56	6745.52	6767.25			
Mo 202.032	82.0676	80.7955	82.1871			
Na 330.237	3128.14	2775.93	3056.06			
Ni 231.604	233.546	234.814	230.628			
Pb 220.353	515.625	515.954	520.157			
Sb 206.834	20.6313	20.3544	24.4138			
Se 196.026	90.6943	97.5182	90.4586			
Sn 189.925	190.277	191.540	194.221			
Sr 216.596	75.2855	75.5311	75.7397			
Ti 334.941	11530.8	11704.1	11433.4			
Tl 190.794	50.7435	53.4315	56.4781			
V 292.401	887.536	891.951	893.135			
Zn 206.200	392.486	390.977	393.309			

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	45.7439b	ppb	0.9289	2.0	4339.47
Al 308.215	198496b	ppb	212.192	0.1	1688901
As 188.980	97.1640b	ppb	2.2223	2.3	99.1771
B 249.678	148.897b	ppb	1.0665	0.7	2247.27
Ba 389.178	921.651b	ppb	0.9164	0.1	30569.0
Be 313.042	56.8666b	ppb	0.1934	0.3	151336
Ca 370.602	4406b	ppb	17.90	0.4	27846
Cd 226.502	43.2622b	ppb	0.1937	0.4	5486.26
Co 228.615	234.846b	ppb	2.7239	12	4975.84

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<b>Label</b>	<b>Sol'n Conc.</b>	<b>Units</b>	<b>SD</b>	<b>%RSD</b>	<b>Int. (c/s)</b>
Cr 267.716	583.848b	ppb	2.6707	0.5	47454.6
Cu 324.754	409.632b	ppb	18.4161	4.5	28168.2
Fe 271.441	272735b	ppb	903.892	0.3	736611
K 766.491	36210.7xb	ppb	9.0814	0.0	2238970
Mg 279.078	42882.7b	ppb	125.688	0.3	224980
Mn 257.610	6745.78b	ppb	21.3461	0.3	2288804
Mo 202.032	81.6834b	ppb	0.7712	0.9	749.410
Na 330.237	2986.71b	ppb	186.062	6.2	319.096
Ni 231.604	232.996b	ppb	2.1464	0.9	1265.21
Pb 220.353	517.245b	ppb	2.5269	0.5	1773.54
Sb 206.834	21.7998b	ppb	2.2680	10.4	78.6608
Se 196.026	92.8904b	ppb	4.0096	4.3	62.9286
Sn 189.925	192.012b	ppb	2.0141	1.0	281.004
Sr 216.596	75.5188b	ppb	0.2273	0.3	2522.11
Ti 334.941	11556.1b	ppb	137.119	1.2	3819024
Tl 190.794	53.5510b	ppb	2.8692	5.4	15.3212
V 292.401	890.874b	ppb	2.9509	0.3	34161.8
Zn 206.200	392.257b	ppb	1.1825	0.3	1174.00

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Rack 4, Tube 21

Weight: 1

Volume: 1

Dilution: 1

<b>Label</b>	<b>Replicates</b>	<b>Concentration</b>
Ag 328.068	46.3156	43.2995
Al 308.215	246071	247895
As 188.980	95.5458	96.2116
B 249.678	139.693	140.633
Ba 389.178	881.127	887.042
Be 313.042	58.9495	59.1799
Ca 370.602	4323	4318
Cd 226.502	40.8135	41.5739
Co 228.615	255.562	257.785
Cr 267.716	586.034	588.972
Cu 324.754	455.119	433.652
Fe 271.441	388280	391357
K 766.491	30404.6	30589.0
Mg 279.078	35346.1	35505.5
Mn 257.610	6528.22	6555.75
Mo 202.032	83.1977	82.5886
Na 330.237	2221.67	2390.87
Ni 231.604	237.487	246.384
Pb 220.353	485.352	490.249
Sb 206.834	18.7857	20.2277
Se 196.026	98.5625	94.3133
Sn 189.925	193.002	192.754
Sr 216.596	63.4664	63.4187
Ti 334.941	14083.4	14123.4
Tl 190.794	63.4082	61.2186
V 292.401	1392.72	1399.26
Zn 206.200	348.753	354.972

<b>Label</b>	<b>Sol'n Conc.</b>	<b>Units</b>	<b>SD</b>	<b>%RSD</b>	<b>Int. (c/s)</b>
Ag 328.068	44.2978	ppb	1.7475	3.9	4180.87
Al 308.215	247409	ppb	1173.15	0.5	2104956

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<b>Label</b>	<b>Sol'n Conc.</b>	<b>Units</b>	<b>SD</b>	<b>%RSD</b>	<b>Int. (c/s)</b>
As 188.980	97.1759	ppb	2.2714	2.3	97.8267
B 249.678	140.578	ppb	0.8595	0.6	1772.07
Ba 389.178	883.548	ppb	3.1001	0.4	29389.1
Be 313.042	59.1491	ppb	0.1862	0.3	157481
Ca 370.602	4319	ppb	3.225	0.1	26687
Cd 226.502	41.2460	ppb	0.3908	0.9	5999.02
Co 228.615	255.830	ppb	1.8353	0.7	5478.99
Cr 267.716	589.123	ppb	3.1672	0.5	47927.2
Cu 324.754	438.811	ppb	14.4372	3.3	30191.9
Fe 271.441	390411	ppb	1848.99	0.5	1054352
K 766.491	30516.3	ppb	98.1381	0.3	1886958
Mg 279.078	35512.2	ppb	169.660	0.5	186232
Mn 257.610	6551.25	ppb	21.1418	0.3	2223313
Mo 202.032	82.8686	ppb	0.3075	0.4	752.097
Na 330.237	2323.60	ppb	89.7683	3.9	215.380
Ni 231.604	242.316	ppb	4.4971	1.9	1326.27
Pb 220.353	489.599	ppb	3.9623	0.8	1699.43
Sb 206.834	18.5560	ppb	1.7975	9.7	70.8989
Se 196.026	95.3707	ppb	2.8162	3.0	63.8867
Sn 189.925	193.433	ppb	0.9682	0.5	283.306
Sr 216.596	63.5924	ppb	0.2607	0.4	2547.34
Ti 334.941	14116.5	ppb	30.1935	0.2	4665138
Tl 190.794	62.6650	ppb	1.2528	2.0	15.4159
V 292.401	1397.65	ppb	4.3473	0.3	53601.9
Zn 206.200	352.105	ppb	3.1379	0.9	1053.45

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Weight: 1      Volume: 1

Rack 4, Tube 22

Dilution: 1

<b>Label</b>	<b>Replicates</b>	<b>Concentration</b>
Ag 328.068	-0.7058u	-0.5555u
Al 308.215	207882	206841
As 188.980	9.7923	2.9708
B 249.678	-6.2018u	-6.5021u
Ba 389.178	839.944	838.139
Be 313.042	8.4850	8.4207
Ca 370.602	-162.0	-154.1
Cd 226.502	-1.7813	-1.5035
Co 228.615	149.102	155.862
Cr 267.716	280.669	279.372
Cu 324.754	238.342	225.611
Fe 271.441	200893	199872
K 766.491	27018.1	26988.6
Mg 279.078	31817.7	31706.7
Mn 257.610	4941.89	4923.65
Mo 202.032	0.4604u	-0.8171u
Na 330.237	-1123.62u	-1164.01u
Ni 231.604	117.936	118.894
Pb 220.353	96.0406	93.7461
Sb 206.834	-4.8122u	-16.2066u
Se 196.026	10.5215	6.8381
Sn 189.925	15.5692	13.3185
Sr 216.596	-7.5355	-8.1083
Ti 334.941	9757.09	9705.93

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Label	Replicates Concentration			
Tl 190.794	9.9847u	14.2624	17.5988	
V 292.401	568.093	566.473	569.583	
Zn 206.200	285.727	281.448	283.619	

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.4486	ppb	0.3241	72.2	-38.3416
Al 308.215	207634	ppb	703.224	0.3	1766563
As 188.980	8.9812	ppb	5.6487	62.9	-4.2765
B 249.678	-6.0934	ppb	0.4724	7.8	-557.988
Ba 389.178	841.091	ppb	3.6636	0.4	27820.5
Be 313.042	8.4664	ppb	0.0397	0.5	21978.8
Ca 370.602	-150.1	ppb	14.38	9.6	2800
Cd 226.502	-1.5491	ppb	0.2131	13.8	1109.52
Co 228.615	150.533	ppb	4.7770	3.2	3250.32
Cr 267.716	280.072	ppb	0.6549	0.2	22839.9
Cu 324.754	231.700	ppb	6.3834	2.8	16045.0
Fe 271.441	200644	ppb	682.108	0.3	541941
K 766.491	27095.8	ppb	160.860	0.6	1675514
Mg 279.078	31789.6	ppb	73.0053	0.2	166768
Mn 257.610	4937.77	ppb	12.5771	0.3	1675378
Mo 202.032	0.1290	ppb	0.8315	644.6	15.3999
Na 330.237	-1086.85	ppb	100.712	9.3	8.6274
Ni 231.604	118.944	ppb	1.0346	0.9	646.975
Pb 220.353	95.0066	ppb	1.1639	1.2	390.979
Sb 206.834	-7.8476	ppb	7.3290	93.4	27.4438
Se 196.026	5.7843	ppb	5.3426	92.4	-4.9865
Sn 189.925	15.1226	ppb	1.6274	10.8	-5.7660
Sr 216.596	-7.9056	ppb	0.3210	4.1	387.574
Ti 334.941	9749.20	ppb	39.9094	0.4	3221875
Tl 190.794	13.9486	ppb	3.8167	27.4	-49.6781
V 292.401	568.049	ppb	1.5557	0.3	21816.4
Zn 206.200	283.598	ppb	2.1392	0.8	850.420

680-115718-a-3-a (Samp)      8/20/2015, 7:05:49 AM      Rack 4, Tube 23  
 Weight: 1      Volume: 1      Dilution: 1

Label	Replicates Concentration			
Ag 328.068	-0.5104u	-0.8729u	-1.4640u	
Al 308.215	271853	272584	272257	
As 188.980	13.7490	9.0850	6.1358	
B 249.678	-5.7824u	-7.4239u	-7.8353u	
Ba 389.178	1155.72	1159.64	1159.47	
Be 313.042	9.3374	9.3333	9.3584	
Ca 370.602	884.1	887.6	879.0	
Cd 226.502	-1.5735	-1.7113	-1.6671	
Co 228.615	152.601	155.473	154.179	
Cr 267.716	411.814	412.470	412.637	
Cu 324.754	202.368	184.157	200.939	
Fe 271.441	219614	219760	219824	
K 766.491	44759.9x	44889.5x	44826.1x	
Mg 279.078	54761.3	54745.5	54729.8	
Mn 257.610	4664.25	4670.91	4665.18	
Mo 202.032	1.5198u	1.2835u	0.8303u	
Na 330.237	-1476.41u	-1662.09u	-1501.61u	

E08192015.wvq. All Data Report 8/20/2015, 3:03:52 PM

Label	Replicates Concentration		
Ni 231.604	174.312	172.916	173.451
Pb 220.353	104.819	105.439	101.470
Sb 206.834	-6.6368u	-12.1643u	-9.6787u
Se 196.026	3.8157	2.6117	3.9042
Sn 189.925	18.7062	14.2887	17.5794
Sr 216.596	5.8181	5.9737	6.0200
Ti 334.941	12265.2	12896.9	12493.9
Tl 190.794	15.7339	16.9091	13.8615u
V 292.401	608.463	608.657	609.053
Zn 206.200	385.811	386.000	382.110

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.9491b	ppb	0.4813	50.7	-91.4743
Al 308.215	272231b	ppb	366.039	0.1	2315917
As 188.980	9.6566b	ppb	3.8386	39.8	-3.6977
B 249.678	-7.0138b	ppb	1.0862	15.5	-626.282
Ba 389.178	1158.28b	ppb	2.2176	0.2	38372.2
Be 313.042	9.3430b	ppb	0.0134	0.1	24331.1
Ca 370.602	883.5b	ppb	4.330	0.5	10401
Cd 226.502	-1.6506b	ppb	0.0704	4.3	1202.16
Co 228.615	154.084b	ppb	1.4382	0.9	3421.31
Cr 267.716	412.307b	ppb	0.4352	0.1	33551.5
Cu 324.754	195.821b	ppb	10.1264	5.2	13613.0
Fe 271.441	219733b	ppb	107.551	0.0	593483
K 766.491	44825.2xb	ppb	64.8083	0.1	2771493
Mg 279.078	54745.5b	ppb	15.7715	0.0	287331
Mn 257.610	4666.78b	ppb	3.6039	0.1	1583868
Mo 202.032	1.2112b	ppb	0.3504	28.9	23.9676
Na 330.237	-1546.70b	ppb	100.722	6.5	-37.9026
Ni 231.604	173.559b	ppb	0.7044	0.4	941.751
Pb 220.353	103.910b	ppb	2.1350	2.1	418.309
Sb 206.834	-9.4933b	ppb	2.7684	29.2	26.4538
Se 196.026	3.4439b	ppb	0.7220	21.0	-7.0579
Sn 189.925	16.8581b	ppb	2.2954	13.6	-2.9526
Sr 216.596	5.9373b	ppb	0.1058	1.8	758.149
Ti 334.941	12552.0b	ppb	319.852	2.5	4148164
Tl 190.794	15.5015b	ppb	1.5370	9.9	-49.8063
V 292.401	608.724b	ppb	0.3009	0.0	23395.0
Zn 206.200	384.640b	ppb	2.1931	0.6	1152.56

660-68615-b-1-a (Samp)      8/20/2015, 7:10:27 AM      Rack 4, Tube 24  
 Weight: 1      Volume: 1      Dilution: 1

Label	Replicates Concentration		
Ag 328.068	-0.2776u	-0.3322u	-0.3855u
Al 308.215	15597.7	15509.6	15551.6
As 188.980	1.7467	8.5652	2.1457
B 249.678	4.3738	4.4234	5.6744
Ba 389.178	156.909	155.313	155.658
Be 313.042	0.7569	0.7478	0.7475
Ca 370.602	23173	23010	23115
Cd 226.502	0.4112	0.3302	0.2506
Co 228.615	8.2664	8.0271	7.8899
Cr 267.716	59.2236	58.8291	59.1367

E08192015.wvq. All Data Report 8/20/2015, 3:03:52 PM

Label	Replicates	Concentration			
Cu 324.754	39.0082	37.8214	38.8940		
Fe 271.441	15306.1	15201.4	15235.6		
K 766.491	3063.17	3035.61	3040.89		
Mg 279.078	3191.09	3168.88	3186.53		
Mn 257.610	350.899	348.953	349.974		
Mo 202.032	9.7149	9.0565	9.3818		
Na 330.237	900.320	814.980	844.096		
Ni 231.604	12.6311	13.3483	12.4904		
Pb 220.353	15.0017	14.4239	18.6380		
Sb 206.834	-2.1237u	-3.0137u	-3.0590u		
Se 196.026	5.6188	6.1048	2.5117		
Sn 189.925	14.0085	13.1207	12.9143		
Sr 216.596	156.991	156.096	156.442		
Ti 334.941	839.972	833.488	838.352		
Tl 190.794	-1.8107u	0.9156u	-2.2725u		
V 292.401	32.0102	31.3555	31.8610		
Zn 206.200	46.4096	46.3890	46.7124		

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.3317	ppb	0.0539	16.3	-26.6922
Al 308.215	15552.9	ppb	44.0429	0.3	132964
As 188.980	4.1525	ppb	3.8267	92.2	-7.8477
B 249.678	4.8239	ppb	0.7370	15.3	148.138
Ba 389.178	155.960	ppb	0.8395	0.5	4960.91
Be 313.042	0.7508	ppb	0.0054	0.7	1307.38
Ca 370.602	23099	ppb	82.97	0.4	127883
Cd 226.502	0.3307	ppb	0.0803	24.3	207.590
Co 228.615	8.0611	ppb	0.1905	2.4	117.381
Cr 267.716	59.0631	ppb	0.2073	0.4	4832.23
Cu 324.754	38.5746	ppb	0.6547	1.7	2849.99
Fe 271.441	15247.7	ppb	53.4048	0.4	41327.0
K 766.491	3046.56	ppb	14.6237	0.5	188859
Mg 279.078	3182.17	ppb	11.7310	0.4	16802.0
Mn 257.610	349.942	ppb	0.9730	0.3	118785
Mo 202.032	9.3844	ppb	0.3292	3.5	111.565
Na 330.237	853.132	ppb	43.3819	5.1	247.587
Ni 231.604	12.8233	ppb	0.4601	3.6	60.7140
Pb 220.353	16.0212	ppb	2.2845	14.3	115.953
Sb 206.834	-2.7321	ppb	0.5274	19.3	36.0057
Se 196.026	4.7451	ppb	1.9494	41.1	-6.1675
Sn 189.925	13.3478	ppb	0.5814	4.4	-8.6414
Sr 216.596	156.510	ppb	0.4511	0.3	3765.09
Ti 334.941	837.271	ppb	3.3745	0.4	276703
Tl 190.794	-1.0558	ppb	1.7229	163.2	-55.1151
V 292.401	31.7422	ppb	0.3431	1.1	1189.78
Zn 206.200	46.5037	ppb	0.1810	0.4	140.727

Cont Calib Verif (CCV)      8/20/2015, 7:15:05 AM      Rack 4, Tube 25  
 Weight: 1      Volume: 1      Dilution: 1

Label	Replicates	Concentration			
Ag 328.068	498.581	489.166	476.908		
Al 308.215	4678.78	4683.76	4642.71		
As 188.980	471.259	468.689	468.004		

Label	Replicates	Concentration					
B 249.678	454.222	456.333	453.516				
Ba 389.178	4794.23	4798.01	4755.32				
Be 313.042	475.390	475.453	471.474				
Ca 370.602	5034	5040	5010				
Cd 226.502	471.130	472.506	470.368				
Co 228.615	469.466	469.568	466.303				
Cr 267.716	4868.79	4865.67	4841.23				
Cu 324.754	4967.32	4879.59	4764.64				
Fe 271.441	4647.24	4644.90	4613.44				
K 766.491	9375.99	9372.20	9254.67				
Mg 279.078	4618.66	4633.13	4596.63				
Mn 257.610	4739.54	4763.07	4727.67				
Mo 202.032	478.439	480.556	478.201				
Na 330.237	6568.25	6531.42	6363.74				
Ni 231.604	2337.80	2346.44	2333.64				
Pb 220.353	469.679	470.779	467.939				
Sb 206.834	953.985	959.624	946.578				
Se 196.026	4549.41	4596.34	4528.31				
Sn 189.925	4772.70	4535.27	4777.50				
Sr 216.596	2355.40	2359.86	2350.81				
Ti 334.941	475.495	474.563	471.178				
Tl 190.794	4746.53	4770.39	4743.94				
V 292.401	4721.02	4723.86	4688.43				
Zn 206.200	2340.61	2350.81	2341.58				

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)	QC Value	
Ag 328.068	488.218	ppb	10.8678	2.2	46293.4	97.64367	
Al 308.215	4668.41	ppb	22.4016	0.5	41049.3	93.36826	
As 188.980	469.318	ppb	1.7161	0.4	542.368	93.86353	
B 249.678	454.690	ppb	1.4660	0.3	8891.24	90.93807	
Ba 389.178	4782.52	ppb	23.6328	0.5	157852	95.65033	
Be 313.042	474.106	ppb	2.2790	0.5	1266630	94.82114	
Ca 370.602	5028	ppb	15.81	0.3	28333	100.56128	
Cd 226.502	471.334	ppb	1.0836	0.2	41714.9	94.26685	
Co 228.615	468.445	ppb	1.8565	0.4	9188.15	93.68909	
Cr 267.716	4858.56	ppb	15.0921	0.3	393021	97.17125	
Cu 324.754	4870.52	ppb	101.648	2.1	331275	97.41033	
Fe 271.441	4635.19	ppb	18.8724	0.4	12845.3	92.70382	
K 766.491	9334.29	ppb	68.9732	0.7	577548	93.34287	
Mg 279.078	4616.14	ppb	18.3831	0.4	24167.8	92.32278	
Mn 257.610	4743.43	ppb	18.0146	0.4	1608254	94.86852	
Mo 202.032	479.065	ppb	1.2966	0.3	4361.14	95.81306	
Na 330.237	6487.80	ppb	109.010	1.7	719.554	86.50404Q	
Ni 231.604	2339.29	ppb	6.5338	0.3	12537.6	93.57169	
Pb 220.353	469.466	ppb	1.4322	0.3	1591.11	93.89313	
Sb 206.834	953.396	ppb	6.5427	0.7	1693.87	95.33957	
Se 196.026	4558.02	ppb	34.8218	0.8	3537.65	91.16043	
Sn 189.925	4695.16	ppb	138.490	2.9	7581.35	93.90311	
Sr 216.596	2355.35	ppb	4.5255	0.2	55133.9	94.21419	
Ti 334.941	473.745	ppb	2.2716	0.5	156571	94.74903	
Tl 190.794	4753.62	ppb	14.5801	0.3	8780.16	95.07241	
V 292.401	4711.11	ppb	19.6857	0.4	180023	94.22212	
Zn 206.200	2344.33	ppb	5.6307	0.2	6996.95	93.77333	

E08192015.wvq. All Data Report 8/20/2015, 3:03:52 PM

Cont Calib Blank (CCB)	8/20/2015, 7:19:43 AM		Rack 4, Tube 26
Weight: 1	Volume: 1		Dilution: 1
Label	Replicates	Concentration	
Ag 328.068	0.0207	0.3142	-0.3072u
Al 308.215	-23.3084u	-23.1161u	-20.5025u
As 188.980	-1.7384u	1.2143	0.5199
B 249.678	3.8116	2.5006	2.3551
Ba 389.178	1.5805	1.8971	0.9405
Be 313.042	0.0391	0.0238	0.0308
Ca 370.602	2.830	8.187	4.097
Cd 226.502	0.3244	0.3266	0.4626
Co 228.615	1.2361	0.8837	0.3927
Cr 267.716	-0.2947u	-0.2166u	-0.3559u
Cu 324.754	-0.4769u	0.6644	-0.2211u
Fe 271.441	-10.4646u	-10.8992u	-8.0183u
K 766.491	-1.4252u	-0.6025u	-0.6299u
Mg 279.078	-1.3365u	-3.2852u	-1.2200u
Mn 257.610	0.0438	0.0040	0.0059
Mo 202.032	-0.0478u	0.2227	-0.1007u
Na 330.237	-162.717u	-188.801u	-336.293u
Ni 231.604	1.9663	-0.0250u	0.6778
Pb 220.353	-2.6995u	-1.3538u	-0.0145u
Sb 206.834	-6.1028u	-6.5625u	-9.8112u
Se 196.026	-2.9956u	3.4253	-1.5226u
Sn 189.925	0.2094	2.3309	-1.2519u
Sr 216.596	-0.3120u	0.0087	0.3444
Ti 334.941	0.2521	0.1452	0.1427
Tl 190.794	-2.2489u	2.3934	2.2974
V 292.401	0.2101	0.4298	0.1492
Zn 206.200	-0.4984u	0.8344	0.7351

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)	QC Value
Ag 328.068	0.0092	ppb	0.3109	3368.4	12.3930	0.00923
Al 308.215	-22.3090	ppb	1.5674	7.0	501.591	-22.30900
As 188.980	-0.0014	ppb	1.5438	112985.6	-12.5801	-0.00137
B 249.678	2.8891	ppb	0.8022	27.8	151.354	2.88912
Ba 389.178	1.4727	ppb	0.4873	33.1	-164.075	1.47270
Be 313.042	0.0312	ppb	0.0076	24.5	-627.921	0.03124
Ca 370.602	5.038	ppb	2.800	55.6	-6.893	5.03792
Cd 226.502	0.3712	ppb	0.0791	21.3	123.787	0.37121
Co 228.615	0.8375	ppb	0.4236	50.6	-54.8334	0.83752
Cr 267.716	-0.2891	ppb	0.0698	24.2	20.0287	-0.28907
Cu 324.754	-0.0112	ppb	0.5989	5344.8	220.919	-0.01121
Fe 271.441	-9.7940	ppb	1.5531	15.9	128.933	-9.79405
K 766.491	-0.8859	ppb	0.4673	52.7	474.187	-0.88587
Mg 279.078	-1.9473	ppb	1.1602	59.6	99.5167	-1.94726
Mn 257.610	0.0179	ppb	0.0224	125.0	43.0242	0.01792
Mo 202.032	0.0247	ppb	0.1735	701.9	27.7513	0.02471
Na 330.237	-229.270	ppb	93.5978	40.8	163.552	-229.27032
Ni 231.604	0.8731	ppb	1.0099	115.7	-4.8071	0.87306
Pb 220.353	-1.3559	ppb	1.3425	99.0	58.1073	-1.35594
Sb 206.834	-7.4922	ppb	2.0214	27.0	27.6317	-7.49217
Se 196.026	-0.3643	ppb	3.3635	923.2	-10.1620	-0.36431
Sn 189.925	0.4295	ppb	1.8015	419.5	-29.5849	0.42947
Sr 216.596	0.0137	ppb	0.3282	2394.9	59.1074	0.01371

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Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)	QC Value
Ti 334.941	0.1800	ppb	0.0625	34.7	64.5491	0.18001
Tl 190.794	0.8140	ppb	2.6529	325.9	-49.7046	0.81398
V 292.401	0.2630	ppb	0.1476	56.1	-18.5984	0.26302
Zn 206.200	0.3570	ppb	0.7425	208.0	2.7301	0.35704

mb 680-397026/1-a (Samp)      8/20/2015, 7:24:21 AM      Rack 4, Tube 27  
 Weight: 1      Volume: 1      Dilution: 1

Label	Replicates	Concentration				
Ag 328.068	-0.0400u	-0.2361u	-0.3180u			
Al 308.215	-14.4403u	-15.4937u	-16.8244u			
As 188.980	0.4098	-2.1151u	-1.0071u			
B 249.678	1.3723	1.4034	0.8699			
Ba 389.178	1.2351	1.4573	1.1298			
Be 313.042	0.0338	0.0185	0.0274			
Ca 370.602	28.64	23.99	26.49			
Cd 226.502	0.6192	0.1901	0.4862			
Co 228.615	1.3134	0.6406	0.5995			
Cr 267.716	1.2556	1.2151	1.3948			
Cu 324.754	-0.2134u	0.3991	0.6424			
Fe 271.441	15.0154	13.2110	11.5007			
K 766.491	7.9161	8.0336	8.4670			
Mg 279.078	-1.3682u	-1.0771u	-2.3131u			
Mn 257.610	0.3068	0.3377	0.2831			
Mo 202.032	-0.6515u	0.5444	0.6539			
Na 330.237	-29.1110u	-216.789u	-211.712u			
Ni 231.604	1.9300	0.8577	1.6212			
Pb 220.353	-0.4394u	-0.4618u	0.5847			
Sb 206.834	-5.6699u	-5.9336u	-9.1883u			
Se 196.026	2.9134	-1.7574u	4.2320			
Sn 189.925	11.0875	12.2973	12.4876			
Sr 216.596	-0.2764u	0.3140	0.3732			
Ti 334.941	0.2926	0.2749	0.2213			
Tl 190.794	2.9458	0.3552	3.3750			
V 292.401	0.5587	0.0105	0.2919			
Zn 206.200	3.5014	4.7626	3.3398			

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.1980	ppb	0.1429	72.2	-7.2887
Al 308.215	-15.5861	ppb	1.1947	7.7	558.776
As 188.980	-0.9041	ppb	1.2656	140.0	-13.6485
B 249.678	1.2152	ppb	0.2994	24.6	118.981
Ba 389.178	1.2741	ppb	0.1672	13.1	-170.618
Be 313.042	0.0266	ppb	0.0077	29.1	-640.429
Ca 370.602	26.37	ppb	2.323	8.8	110.5
Cd 226.502	0.4319	ppb	0.2197	50.9	129.255
Co 228.615	0.8512	ppb	0.4008	47.1	-54.5765
Cr 267.716	1.2885	ppb	0.0943	7.3	147.655
Cu 324.754	0.2761	ppb	0.4410	159.7	240.460
Fe 271.441	13.2423	ppb	1.7576	13.3	191.143
K 766.491	8.1389	ppb	0.2901	3.6	1032.07
Mg 279.078	-1.5861	ppb	0.6462	40.7	101.398
Mn 257.610	0.3092	ppb	0.0274	8.9	141.888
Mo 202.032	0.1823	ppb	0.7241	397.2	29.1779

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Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Na 330.237	-152.537	ppb	106.921	70.1	169.948
Ni 231.604	1.4696	ppb	0.5520	37.6	-1.6052
Pb 220.353	-0.1055	ppb	0.5979	566.8	62.1725
Sb 206.834	-6.9306	ppb	1.9597	28.3	28.5904
Se 196.026	1.7960	ppb	3.1471	175.2	-8.4816
Sn 189.925	11.9575	ppb	0.7594	6.4	-10.8961
Sr 216.596	0.1369	ppb	0.3591	262.3	62.0320
Ti 334.941	0.2629	ppb	0.0371	14.1	91.9464
Tl 190.794	2.2253	ppb	1.6338	73.4	-47.0907
V 292.401	0.2870	ppb	0.2741	95.5	-17.8171
Zn 206.200	3.8679	ppb	0.7790	20.1	13.2530

lcs 680-397026/2-a (Samp)

8/20/2015, 7:28:59 AM

Rack 4, Tube 28

Weight: 1

Volume: 1

Dilution: 1

Label	Replicates	Concentration			
Ag 328.068	48.6038	47.6028	48.5692		
Al 308.215	4448.89	4493.98	4596.33		
As 188.980	94.6045	91.9012	96.9241		
B 249.678	172.137	175.045	180.694		
Ba 389.178	94.4866	95.8732	97.0878		
Be 313.042	48.0738	48.5482	49.7078		
Ca 370.602	4727	4797	4910		
Cd 226.502	47.6149	48.3826	49.3191		
Co 228.615	48.8627	48.1935	49.7661		
Cr 267.716	94.9743	96.1832	98.3154		
Cu 324.754	97.2532	94.7808	97.2408		
Fe 271.441	4460.79	4504.65	4617.21		
K 766.491	4526.57	4568.18	4654.86		
Mg 279.078	4353.09	4398.96	4496.98		
Mn 257.610	462.472	467.419	478.350		
Mo 202.032	92.5241	93.0861	95.5709		
Na 330.237	4183.14	4403.12	4307.99		
Ni 231.604	93.6993	93.8252	96.2324		
Pb 220.353	447.859	451.289	459.960		
Sb 206.834	41.1637	42.1705	43.9635		
Se 196.026	84.6847	98.6490	90.4769		
Sn 189.925	187.709	193.128	196.415		
Sr 216.596	91.4385	91.6050	94.6303		
Ti 334.941	93.5365	94.5217	96.7456		
Tl 190.794	40.4836	40.5466	39.8107		
V 292.401	93.4097	93.9779	96.5771		
Zn 206.200	92.4887	94.3526	94.1327		

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	48.2586	ppb	0.5682	1.2	4589.79
Al 308.215	4513.07	ppb	75.5505	1.7	39089.5
As 188.980	94.4766	ppb	2.5139	2.7	99.0958
B 249.678	175.959	ppb	4.3511	2.5	3486.60
Ba 389.178	95.8159	ppb	1.3015	1.4	2968.63
Be 313.042	48.7766	ppb	0.8406	1.7	129635
Ca 370.602	4811	ppb	92.45	1.9	26530
Cd 226.502	48.4389	ppb	0.8535	1.8	4392.76
Co 228.615	48.9408	ppb	0.7892	6	893.730

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<b>Label</b>	<b>Sol'n Conc.</b>	<b>Units</b>	<b>SD</b>	<b>%RSD</b>	<b>Int. (c/s)</b>
Cr 267.716	96.4910	ppb	1.6916	1.8	7852.26
Cu 324.754	96.4249	ppb	1.4239	1.5	6780.69
Fe 271.441	4527.55	ppb	80.6847	1.8	12390.2
K 766.491	4583.20	ppb	65.4470	1.4	283850
Mg 279.078	4416.34	ppb	73.5010	1.7	23289.0
Mn 257.610	469.414	ppb	8.1246	1.7	159254
Mo 202.032	93.7271	ppb	1.6214	1.7	876.357
Na 330.237	4298.08	ppb	110.322	2.6	539.699
Ni 231.604	94.5856	ppb	1.4275	1.5	498.122
Pb 220.353	453.036	ppb	6.2368	1.4	1534.41
Sb 206.834	42.4326	ppb	1.4182	3.3	110.275
Se 196.026	91.2702	ppb	7.0159	7.7	61.2693
Sn 189.925	192.417	ppb	4.3963	2.3	281.662
Sr 216.596	92.5579	ppb	1.7966	1.9	2233.37
Ti 334.941	94.9346	ppb	1.6439	1.7	31387.0
Tl 190.794	40.2803	ppb	0.4079	1.0	23.4482
V 292.401	94.6549	ppb	1.6887	1.8	3566.87
Zn 206.200	93.6580	ppb	1.0186	1.1	281.929

680-115776-c-15-a (Samp)

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Rack 4, Tube 29

Weight: 1

Volume: 1

Dilution: 1

<b>Label</b>	<b>Replicates</b>	<b>Concentration</b>
Ag 328.068	-0.1723u	-0.1059u
Al 308.215	8316.58	8344.25
As 188.980	3.0146	6.5986
B 249.678	1.3556u	1.0588u
Ba 389.178	3.9339	3.9965
Be 313.042	0.1417	0.1407
Ca 370.602	86.49	84.96
Cd 226.502	0.0846	0.1415
Co 228.615	0.8674	0.9813
Cr 267.716	17.6915	18.0826
Cu 324.754	17.5898	16.8917
Fe 271.441	17248.8	17204.7
K 766.491	68.6376	68.1138
Mg 279.078	24.4001	23.1455
Mn 257.610	11.0606	11.0782
Mo 202.032	0.8564	1.1666
Na 330.237	-321.117u	-257.531u
Ni 231.604	2.3900	1.8139
Pb 220.353	3.3793	2.6367
Sb 206.834	-4.1447u	-2.8987u
Se 196.026	0.2632	2.2464
Sn 189.925	11.8380	13.2965
Sr 216.596	-0.0584	0.2275
Ti 334.941	156.051	156.438
Tl 190.794	2.5316	5.2208
V 292.401	70.5841	70.3808
Zn 206.200	5.4307	6.7444

<b>Label</b>	<b>Sol'n Conc.</b>	<b>Units</b>	<b>SD</b>	<b>%RSD</b>	<b>Int. (c/s)</b>
Ag 328.068	-0.1514	ppb	0.0395	26.1	-5.8586
Al 308.215	8334.60	ppb	15.6252	0.2	71582.4

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<b>Label</b>	<b>Sol'n Conc.</b>	<b>Units</b>	<b>SD</b>	<b>%RSD</b>	<b>Int. (c/s)</b>
As 188.980	5.9809	ppb	2.7108	45.3	-5.7022
B 249.678	0.9489	ppb	0.4714	49.7	67.8328
Ba 389.178	3.9995	ppb	0.0672	1.7	-66.3320
Be 313.042	0.1440	ppb	0.0049	3.4	-320.460
Ca 370.602	86.15	ppb	1.064	1.2	156.6
Cd 226.502	0.1021	ppb	0.0341	33.4	202.232
Co 228.615	0.8828	ppb	0.0917	10.4	-48.9417
Cr 267.716	17.9293	ppb	0.2088	1.2	1500.16
Cu 324.754	17.1795	ppb	0.3648	2.1	1395.52
Fe 271.441	17239.9	ppb	31.6957	0.2	46705.1
K 766.491	68.4466	ppb	0.2892	0.4	4760.12
Mg 279.078	22.6276	ppb	2.0804	9.2	222.103
Mn 257.610	11.0742	ppb	0.0121	0.1	3871.86
Mo 202.032	1.2692	ppb	0.4725	37.2	37.8536
Na 330.237	-232.918	ppb	102.741	44.1	156.169
Ni 231.604	1.8571	ppb	0.5126	27.6	2.1079
Pb 220.353	3.5167	ppb	0.9560	27.2	76.4541
Sb 206.834	-4.3200	ppb	1.5166	35.1	32.8126
Se 196.026	1.4276	ppb	1.0358	72.6	-8.8951
Sn 189.925	12.4417	ppb	0.7610	6.1	-10.1112
Sr 216.596	0.0558	ppb	0.1514	271.1	104.775
Ti 334.941	156.211	ppb	0.2018	0.1	51630.1
Tl 190.794	2.7970	ppb	2.3026	82.3	-48.4855
V 292.401	70.4397	ppb	0.1258	0.2	2669.97
Zn 206.200	6.1838	ppb	0.6776	11.0	20.0649

**680-115776-c-15-aSD (Samp)      8/20/2015, 7:38:17 AM      Rack 4, Tube 30**  
**Weight: 1      Volume: 1      Dilution: 1**

<b>Label</b>	<b>Replicates</b>	<b>Concentration</b>
Ag 328.068	-0.1601u	-0.4224u
Al 308.215	1901.79	1785.95
As 188.980	0.6273	1.5838
B 249.678	1.3753	0.0501u
Ba 389.178	2.4061	2.0496
Be 313.042	0.0575	0.0635
Ca 370.602	26.00	25.90
Cd 226.502	0.3566	0.2714
Co 228.615	0.3848	0.6703
Cr 267.716	4.0441	3.6753
Cu 324.754	4.6563	4.1594
Fe 271.441	3819.75	3611.70
K 766.491	16.3061	15.0944
Mg 279.078	4.9090	0.6833
Mn 257.610	2.5216	2.4321
Mo 202.032	1.2810	0.9637
Na 330.237	-112.184u	-137.795u
Ni 231.604	2.1884	0.5267
Pb 220.353	1.1643	-1.0841u
Sb 206.834	-0.7188u	-7.2388u
Se 196.026	2.1717	-2.5642u
Sn 189.925	4.9403	3.4205
Sr 216.596	0.2695	-0.5049u
Ti 334.941	36.0043	33.3129

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Label	Replicates Concentration			
Tl 190.794	3.6687	0.7332	1.5930	
V 292.401	15.6447	14.8398	14.9667	
Zn 206.200	1.2033	1.0541	0.7808	

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.1728	ppb	0.2434	140.8	-5.5369
Al 308.215	1825.14	ppb	66.3897	3.6	16215.2
As 188.980	1.3084	ppb	0.5935	45.4	-11.0736
B 249.678	0.8149	ppb	0.6859	84.2	101.419
Ba 389.178	2.2023	ppb	0.1837	8.3	-136.918
Be 313.042	0.0552	ppb	0.0097	17.7	-562.832
Ca 370.602	25.70	ppb	0.4331	1.7	46.98
Cd 226.502	0.3314	ppb	0.0522	15.7	142.122
Co 228.615	0.5278	ppb	0.1427	27.0	-59.8946
Cr 267.716	3.8137	ppb	0.2009	5.3	353.292
Cu 324.754	3.8046	ppb	1.0739	28.2	481.620
Fe 271.441	3681.31	ppb	119.895	3.3	10095.3
K 766.491	15.4045	ppb	0.7934	5.2	1481.21
Mg 279.078	2.2367	ppb	2.3244	103.9	120.057
Mn 257.610	2.4663	ppb	0.0484	2.0	890.275
Mo 202.032	0.9377	ppb	0.3570	38.1	35.7732
Na 330.237	-163.693	ppb	68.2504	41.7	167.516
Ni 231.604	1.3617	ppb	0.8309	61.0	-1.8349
Pb 220.353	0.0222	ppb	1.1246	5067.7	63.1184
Sb 206.834	-3.4702	ppb	3.3769	97.3	34.2770
Se 196.026	0.0233	ppb	2.3983	10311.1	-9.8877
Sn 189.925	3.8853	ppb	0.9158	23.6	-23.9824
Sr 216.596	0.0354	ppb	0.4693	1325.5	69.1556
Ti 334.941	34.2734	ppb	1.5020	4.4	11331.8
Tl 190.794	1.9983	ppb	1.5091	75.5	-48.0374
V 292.401	15.1504	ppb	0.4328	2.9	551.582
Zn 206.200	1.0127	ppb	0.2143	21.2	4.6639

680-115776-c-15-aPDS (Samp)    8/20/2015, 7:42:55 AM    Rack 4, Tube 31  
 Weight: 1    Volume: 1    Dilution: 1

Label	Replicates Concentration			
Ag 328.068	58.1804	60.5700	60.0769	
Al 308.215	9453.45	9239.40	9451.40	
As 188.980	95.8395	96.2148	99.6438	
B 249.678	176.651	177.560	178.641	
Ba 389.178	93.9040	93.7390	94.7159	
Be 313.042	93.4076	93.7299	93.7973	
Ca 370.602	9701	9717	9736	
Cd 226.502	90.3801	90.3703	90.7454	
Co 228.615	94.0807	93.0078	92.6430	
Cr 267.716	114.286	114.288	114.300	
Cu 324.754	112.949	117.686	116.028	
Fe 271.441	26213.8	26275.3	26307.4	
K 766.491	9096.40	9138.80	9172.72	
Mg 279.078	8872.38	8908.08	8908.00	
Mn 257.610	963.921	967.190	966.724	
Mo 202.032	93.3449	94.1858	94.7312	
Na 330.237	8210.64	8132.70	8056.04	

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Label	Replicates	Concentration			
Ni 231.604	94.0442	94.9079	92.7377		
Pb 220.353	94.9713	95.9686	95.2333		
Sb 206.834	77.9876	75.7651	86.9928		
Se 196.026	93.2909	90.9247	93.1034		
Sn 189.925	106.872	104.310	103.889		
Sr 216.596	91.0515	90.7930	90.5918		
Ti 334.941	249.475	249.176	250.760		
Tl 190.794	22.5176	19.6459	18.0837		
V 292.401	163.832	163.670	164.686		
Zn 206.200	96.3049	96.9048	96.6624		

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	59.6091	ppb	1.2617	2.1	5665.88
Al 308.215	9381.41	ppb	122.995	1.3	80502.9
As 188.980	97.2327	ppb	2.0965	2.2	102.105
B 249.678	177.617	ppb	0.9963	0.6	3461.22
Ba 389.178	94.1196	ppb	0.5230	0.6	2941.17
Be 313.042	93.6449	ppb	0.2083	0.2	249554
Ca 370.602	9718	ppb	17.60	0.2	53253
Cd 226.502	90.4986	ppb	0.2138	0.2	8233.89
Co 228.615	93.2438	ppb	0.7474	0.8	1774.10
Cr 267.716	114.291	ppb	0.0075	0.0	9303.25
Cu 324.754	115.554	ppb	2.4039	2.1	8088.83
Fe 271.441	26265.5	ppb	47.5262	0.2	71092.2
K 766.491	9135.97	ppb	38.2378	0.4	565289
Mg 279.078	8896.15	ppb	20.5879	0.2	46800.3
Mn 257.610	965.945	ppb	1.7683	0.2	327745
Mo 202.032	94.0873	ppb	0.6984	0.7	878.170
Na 330.237	8133.12	ppb	77.2999	1.0	851.092
Ni 231.604	93.8966	ppb	1.0926	1.2	496.296
Pb 220.353	95.3911	ppb	0.5170	0.5	376.372
Sb 206.834	80.2485	ppb	5.9455	7.4	172.865
Se 196.026	92.4396	ppb	1.3153	1.4	62.2064
Sn 189.925	105.024	ppb	1.6147	1.5	139.985
Sr 216.596	90.8121	ppb	0.2304	0.3	2248.89
Ti 334.941	249.804	ppb	0.8417	0.3	82577.6
Tl 190.794	20.0824	ppb	2.2489	11.2	-16.5268
V 292.401	164.063	ppb	0.5460	0.3	6226.40
Zn 206.200	96.6240	ppb	0.3018	0.3	290.685

680-115776-c-15-b ms (Samp)    8/20/2015, 7:47:33 AM    Rack 4, Tube 32  
 Weight: 1    Volume: 1    Dilution: 1

Label	Replicates	Concentration			
Ag 328.068	47.3552	45.8578	47.1639		
Al 308.215	13906.4	14236.0	13929.1		
As 188.980	91.3197	101.690	100.102		
B 249.678	164.349	169.614	166.555		
Ba 389.178	94.6383	96.3323	94.3673		
Be 313.042	46.9516	48.3073	47.2689		
Ca 370.602	4635	4784	4682		
Cd 226.502	46.2097	47.2701	46.2469		
Co 228.615	46.6988	47.6066	47.0943		
Cr 267.716	109.114	112.834	110.332		

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Label	Replicates	Concentration
Cu 324.754	111.668	108.379
Fe 271.441	20714.6	21270.7
K 766.491	4463.57	4554.37
Mg 279.078	4264.54	4377.09
Mn 257.610	460.231	473.315
Mo 202.032	86.6653	89.3953
Na 330.237	3975.40	4183.86
Ni 231.604	89.7930	93.2442
Pb 220.353	435.889	449.672
Sb 206.834	28.9421	36.2637
Se 196.026	78.9001	87.8388
Sn 189.925	183.590	189.340
Sr 216.596	88.1210	90.7918
Ti 334.941	208.202	213.152
Tl 190.794	35.8153	36.6360
V 292.401	155.941	159.801
Zn 206.200	95.3278	96.7690

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	46.7923	ppb	0.8150	1.7	4447.85
Al 308.215	14023.8	ppb	184.067	1.3	119981
As 188.980	97.7041	ppb	5.5858	5.7	102.729
B 249.678	166.839	ppb	2.6444	1.6	3266.25
Ba 389.178	95.1126	ppb	1.0649	1.1	2958.56
Be 313.042	47.5092	ppb	0.7091	1.5	126255
Ca 370.602	4700	ppb	76.38	1.6	25616
Cd 226.502	46.5756	ppb	0.6018	1.3	4325.74
Co 228.615	47.1333	ppb	0.4551	1.0	861.981
Cr 267.716	110.760	ppb	1.8965	1.7	9012.51
Cu 324.754	111.055	ppb	2.4278	2.2	7780.69
Fe 271.441	20944.1	ppb	290.516	1.4	56716.2
K 766.491	4498.31	ppb	49.0066	1.1	278602
Mg 279.078	4309.41	ppb	59.6422	1.4	22720.4
Mn 257.610	465.767	ppb	6.7696	1.5	158093
Mo 202.032	87.4494	ppb	1.6958	1.9	818.364
Na 330.237	4052.79	ppb	114.129	2.8	512.481
Ni 231.604	91.3528	ppb	1.7494	1.9	482.348
Pb 220.353	441.199	ppb	7.4157	1.7	1498.38
Sb 206.834	33.0835	ppb	3.7543	11.3	94.7718
Se 196.026	85.3057	ppb	5.5877	6.6	56.5031
Sn 189.925	187.213	ppb	3.1534	1.7	273.225
Sr 216.596	89.2563	ppb	1.3796	1.5	2198.83
Ti 334.941	209.848	ppb	2.8619	1.4	69364.2
Tl 190.794	37.7433	ppb	2.6605	7.0	16.3902
V 292.401	157.644	ppb	1.9700	1.2	5981.97
Zn 206.200	96.0595	ppb	0.7209	0.8	289.019

680-115776-c-15-c ms (Samp)    8/20/2015, 7:52:12 AM    Rack 4, Tube 33  
 Weight: 1    Volume: 1    Dilution: 1

Label	Replicates	Concentration
Ag 328.068	48.6959	49.9757
Al 308.215	14456.4	14606.7
As 188.980	96.4530	101.485

<b>Label</b>	<b>Replicates Concentration</b>				
B 249.678	171.587	173.918	174.561		
Ba 389.178	99.2318	100.445	100.537		
Be 313.042	49.1028	49.6894	49.6261		
Ca 370.602	4843	4908	4899		
Cd 226.502	48.0353	48.4697	48.5217		
Co 228.615	48.8277	49.1850	48.8529		
Cr 267.716	117.011	118.188	117.929		
Cu 324.754	116.868	119.456	119.591		
Fe 271.441	23569.7	23836.0	23830.2		
K 766.491	4656.57	4716.05	4709.97		
Mg 279.078	4445.34	4491.55	4493.06		
Mn 257.610	481.610	485.972	485.867		
Mo 202.032	88.4062	89.8599	90.1583		
Na 330.237	4048.76	4132.09	4272.38		
Ni 231.604	95.2520	97.6283	97.1106		
Pb 220.353	454.547	460.826	461.973		
Sb 206.834	27.5108	30.0757	29.4796		
Se 196.026	86.1545	94.0246	92.8179		
Sn 189.925	192.273	193.445	198.748		
Sr 216.596	92.0552	92.9060	92.8461		
Ti 334.941	226.470	230.515	228.676		
Tl 190.794	39.0593	41.8880	41.8280		
V 292.401	167.862	170.807	169.912		
Zn 206.200	96.9666	98.5403	99.0505		

<b>Label</b>	<b>Sol'n Conc.</b>	<b>Units</b>	<b>SD</b>	<b>%RSD</b>	<b>Int. (c/s)</b>
Ag 328.068	49.4229	ppb	0.6574	1.3	4696.96
Al 308.215	14551.8	ppb	82.9912	0.6	124474
As 188.980	97.7832	ppb	3.2478	3.3	102.789
B 249.678	173.355	ppb	1.5649	0.9	3384.78
Ba 389.178	100.071	ppb	0.7285	0.7	3125.13
Be 313.042	49.4728	ppb	0.3220	0.7	131503
Ca 370.602	4883	ppb	35.32	0.7	26574
Cd 226.502	48.3423	ppb	0.2671	0.6	4498.31
Co 228.615	48.9552	ppb	0.1994	0.4	898.461
Cr 267.716	117.709	ppb	0.6183	0.5	9575.76
Cu 324.754	118.639	ppb	1.5349	1.3	8297.25
Fe 271.441	23745.3	ppb	152.116	0.6	64280.2
K 766.491	4694.20	ppb	32.7248	0.7	290711
Mg 279.078	4476.65	ppb	27.1237	0.6	23597.9
Mn 257.610	484.483	ppb	2.4885	0.5	164453
Mo 202.032	89.4748	ppb	0.9374	1.0	836.525
Na 330.237	4151.08	ppb	113.012	2.7	519.538
Ni 231.604	96.6636	ppb	1.2496	1.3	511.094
Pb 220.353	459.115	ppb	3.9976	0.9	1557.01
Sb 206.834	29.0220	ppb	1.3423	4.6	88.0592
Se 196.026	90.9990	ppb	4.2386	4.7	60.9178
Sn 189.925	194.822	ppb	3.4503	1.8	285.560
Sr 216.596	92.6024	ppb	0.4749	0.5	2284.24
Ti 334.941	228.553	ppb	2.0253	0.9	75546.5
Tl 190.794	40.9251	ppb	1.6161	3.9	21.9101
V 292.401	169.527	ppb	1.5095	0.9	6436.42
Zn 206.200	98.1858	ppb	1.0862	1.1	295.342

E08192015.wvq. All Data Report 8/20/2015, 3:03:52 PM

680-115776-c-13-a (Samp)	8/20/2015, 7:56:50 AM	Rack 4, Tube 34
Weight: 1	Volume: 1	Dilution: 1
Label	Replicates	Concentration
Ag 328.068	-0.9818u	-0.6737u
Al 308.215	12081.7	12245.5
As 188.980	5.1178	7.2934
B 249.678	1.8211u	0.9245u
Ba 389.178	4.6300	4.9268
Be 313.042	0.1336	0.1366
Ca 370.602	31.14u	29.30u
Cd 226.502	0.0497	0.2260
Co 228.615	0.6891	0.9268
Cr 267.716	20.6825	21.0477
Cu 324.754	11.5032	12.0856
Fe 271.441	17335.3	17630.8
K 766.491	123.028	125.051
Mg 279.078	80.5965	83.5719
Mn 257.610	9.9231	10.0704
Mo 202.032	1.5750	2.3608
Na 330.237	-209.927u	-200.662u
Ni 231.604	3.5812	2.8398
Pb 220.353	7.7942	12.3543
Sb 206.834	0.6535	-9.5561u
Se 196.026	-0.0441u	0.0894u
Sn 189.925	12.6000	13.0365
Sr 216.596	0.1952	0.6563
Ti 334.941	239.019	243.033
Tl 190.794	2.3227	-1.0404u
V 292.401	115.355	117.675
Zn 206.200	6.9408	7.1950
		7.5727

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-1.0670	ppb	0.4421	41.4	-92.6526
Al 308.215	12126.8	ppb	103.807	0.9	103838
As 188.980	6.2182	ppb	1.0881	17.5	-5.4245
B 249.678	1.4644	ppb	0.4755	32.5	77.2412
Ba 389.178	4.9242	ppb	0.2930	6.0	-35.3126
Be 313.042	0.1343	ppb	0.0021	1.5	-342.439
Ca 370.602	31.10	ppb	1.791	5.8	-80.37
Cd 226.502	0.1550	ppb	0.0930	60.0	207.812
Co 228.615	0.8981	ppb	0.1963	21.9	-45.6331
Cr 267.716	20.8948	ppb	0.1897	0.9	1739.71
Cu 324.754	11.7330	ppb	0.3100	2.6	1024.76
Fe 271.441	17457.8	ppb	154.078	0.9	47294.3
K 766.491	123.996	ppb	1.0142	0.8	8194.05
Mg 279.078	81.9995	ppb	1.4949	1.8	531.305
Mn 257.610	9.9674	ppb	0.0896	0.9	3498.31
Mo 202.032	2.1911	ppb	0.5513	25.2	46.1275
Na 330.237	-241.030	ppb	62.0691	25.8	155.395
Ni 231.604	3.4005	ppb	0.4956	14.6	10.4090
Pb 220.353	9.9281	ppb	2.2941	23.1	97.1166
Sb 206.834	-5.8631	ppb	5.6603	96.5	30.2797
Se 196.026	-0.9599	ppb	1.7031	177.4	-10.7545
Sn 189.925	12.7684	ppb	0.2347	1.8	-9.5815
Sr 216.596	0.3500	ppb	0.2653	75.8	112.122

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Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ti 334.941	240.646	ppb	2.1117	0.9	79533.5
Tl 190.794	1.0438	ppb	1.8204	174.4	-51.6435
V 292.401	116.229	ppb	1.2617	1.1	4424.55
Zn 206.200	7.2362	ppb	0.3179	4.4	23.1989

680-115776-c-14-a (Samp)      8/20/2015, 8:01:29 AM      Rack 4, Tube 35  
 Weight: 1      Volume: 1      Dilution: 1

Label	Replicates	Concentration				
Ag 328.068	-0.2451u	-0.4904u	-0.8440u			
Al 308.215	16779.9	15425.8	15560.4			
As 188.980	3.9857	7.8790	6.7287			
B 249.678	1.5300u	1.0653u	0.4292u			
Ba 389.178	11.6226	11.7311	11.2067			
Be 313.042	0.1660	0.1755	0.1786			
Ca 370.602	157.7	152.7	154.3			
Cd 226.502	0.3482	0.1584	0.0961			
Co 228.615	0.5432	1.0177	1.1043			
Cr 267.716	27.5888	25.2513	25.6529			
Cu 324.754	12.7826	12.8055	11.7611			
Fe 271.441	21314.2	19623.8	19815.5			
K 766.491	184.042	167.850	170.867			
Mg 279.078	114.277	102.770	108.085			
Mn 257.610	20.2097	18.5031	18.6902			
Mo 202.032	2.2672	1.8498	0.9895			
Na 330.237	-227.818u	-349.711u	-100.448u			
Ni 231.604	3.8874	4.4804	3.8491			
Pb 220.353	9.2713	8.8297	11.0789			
Sb 206.834	-2.4387u	-6.7124u	-2.4312u			
Se 196.026	6.7934	1.8287	3.3654			
Sn 189.925	11.3465	10.8167	12.9005			
Sr 216.596	0.7648	0.8572	0.6659			
Ti 334.941	246.540	226.160	228.754			
Tl 190.794	-2.5821u	2.0636	-0.6537u			
V 292.401	97.4175	90.0416	90.5174			
Zn 206.200	12.5364	11.3520	10.4099			

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.5265	ppb	0.3010	57.2	-41.8971
Al 308.215	15922.0	ppb	745.964	4.7	136111
As 188.980	6.1978	ppb	2.0002	32.3	-5.4808
B 249.678	1.0082	ppb	0.5526	54.8	60.9484
Ba 389.178	11.5202	ppb	0.2768	2.4	184.890
Be 313.042	0.1734	ppb	0.0066	3.8	-239.226
Ca 370.602	154.9	ppb	2.578	1.7	529.7
Cd 226.502	0.2009	ppb	0.1313	65.4	228.579
Co 228.615	0.8884	ppb	0.3020	34.0	-46.1293
Cr 267.716	26.1643	ppb	1.2499	4.8	2167.57
Cu 324.754	12.4497	ppb	0.5965	4.8	1074.90
Fe 271.441	20251.2	ppb	925.622	4.6	54836.0
K 766.491	174.253	ppb	8.6109	4.9	11300.8
Mg 279.078	108.377	ppb	5.7591	5.3	666.768
Mn 257.610	19.1343	ppb	0.9360	4.9	6619.46
Mo 202.032	1.7022	ppb	0.6516	38.3	41.5573

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Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Na 330.237	-225.992	ppb	124.642	55.2	155.502
Ni 231.604	4.0723	ppb	0.3540	8.7	14.2809
Pb 220.353	9.7266	ppb	1.1917	12.3	96.8427
Sb 206.834	-3.8608	ppb	2.4696	64.0	33.6362
Se 196.026	3.9959	ppb	2.5417	63.6	-6.9171
Sn 189.925	11.6879	ppb	1.0831	9.3	-11.3332
Sr 216.596	0.7626	ppb	0.0957	12.5	129.009
Ti 334.941	233.818	ppb	11.0935	4.7	77277.5
Tl 190.794	-0.3907	ppb	2.3340	597.3	-54.7925
V 292.401	92.6589	ppb	4.1280	4.5	3521.28
Zn 206.200	11.4328	ppb	1.0656	9.3	35.7498

680-115776-c-12-a (Samp)

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Rack 4, Tube 36

Weight: 1

Volume: 1

Dilution: 1

Label	Replicates	Concentration			
Ag 328.068	-1.5173u	-1.0792u	-0.7802u		
Al 308.215	15674.4	15333.9	15090.4		
As 188.980	10.5774	13.4204	9.2446		
B 249.678	0.5269u	-0.1520u	0.2005u		
Ba 389.178	6.3753	7.4594	7.4560		
Be 313.042	0.1937	0.1848	0.1886		
Ca 370.602	75.24	72.66u	69.78u		
Cd 226.502	0.1525	0.1782	-0.0875		
Co 228.615	1.4108	0.7283	1.1066		
Cr 267.716	30.2453	29.2179	28.9996		
Cu 324.754	15.1106	15.4587	16.9297		
Fe 271.441	26395.7	25911.9	25687.3		
K 766.491	143.902	140.843	139.374		
Mg 279.078	107.053	103.432	102.123		
Mn 257.610	15.1299	14.8719	14.6512		
Mo 202.032	2.0575	0.9052	2.3128		
Na 330.237	-342.932u	-167.280u	-136.282u		
Ni 231.604	5.1757	4.5067	4.2795		
Pb 220.353	11.3422	13.0318	10.8353		
Sb 206.834	-9.9117u	-1.1941u	-7.0612u		
Se 196.026	2.4920	-3.2953u	4.2992		
Sn 189.925	13.1788	12.2383	11.5338		
Sr 216.596	1.1345	0.7106	0.9983		
Ti 334.941	268.406	259.295	254.544		
Tl 190.794	-1.0108u	2.7535	0.4171u		
V 292.401	106.762	104.555	103.892		
Zn 206.200	9.4258	8.8736	9.0751		

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-1.1256	ppb	0.3707	32.9	-99.8584
Al 308.215	15366.2	ppb	293.346	1.9	131387
As 188.980	11.0808	ppb	2.1329	19.2	0.2301
B 249.678	0.1918	ppb	0.3395	177.0	29.7085
Ba 389.178	7.0969	ppb	0.6249	8.8	43.4265
Be 313.042	0.1890	ppb	0.0045	2.4	-196.589
Ca 370.602	72.56	ppb	2.730	3.8	-41.80
Cd 226.502	0.0811	ppb	0.1465	180.8	252.268
Co 228.615	1.0819	ppb	0.3419	316	41.5267

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Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Cr 267.716	29.4876	ppb	0.6652	2.3	2438.53
Cu 324.754	15.8330	ppb	0.9656	6.1	1307.03
Fe 271.441	25998.3	ppb	361.987	1.4	70353.7
K 766.491	141.373	ppb	2.3098	1.6	9268.24
Mg 279.078	104.202	ppb	2.5536	2.5	645.408
Mn 257.610	14.8843	ppb	0.2396	1.6	5205.36
Mo 202.032	1.7585	ppb	0.7500	42.6	41.6918
Na 330.237	-215.498	ppb	111.444	51.7	154.020
Ni 231.604	4.6540	ppb	0.4659	10.0	17.9447
Pb 220.353	11.7365	ppb	1.1501	9.8	104.330
Sb 206.834	-6.0557	ppb	4.4449	73.4	29.9288
Se 196.026	1.1653	ppb	3.9673	340.4	-9.1645
Sn 189.925	12.3170	ppb	0.8253	6.7	-10.3134
Sr 216.596	0.9478	ppb	0.2164	22.8	148.279
Ti 334.941	260.748	ppb	7.0443	2.7	86177.8
Tl 190.794	0.7199	ppb	1.9003	264.0	-53.5907
V 292.401	105.070	ppb	1.5029	1.4	3996.81
Zn 206.200	9.1248	ppb	0.2794	3.1	28.7958

Cont Calib Verif (CCV)

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Rack 4, Tube 37

Weight: 1

Volume: 1

Dilution: 1

Label	Replicates	Concentration
Ag 328.068	480.524	499.324
Al 308.215	4667.89	4715.45
As 188.980	471.372	461.595
B 249.678	454.110	459.998
Ba 389.178	4763.92	4811.51
Be 313.042	474.087	478.633
Ca 370.602	5029	5076
Cd 226.502	470.901	474.587
Co 228.615	468.223	472.033
Cr 267.716	4871.96	4904.15
Cu 324.754	4951.45	5079.40
Fe 271.441	4641.33	4674.78
K 766.491	9355.07	9405.46
Mg 279.078	4626.79	4665.54
Mn 257.610	4744.88	4779.92
Mo 202.032	479.124	482.470
Na 330.237	6459.41	6388.85
Ni 231.604	2337.92	2356.44
Pb 220.353	470.886	473.338
Sb 206.834	948.659	961.590
Se 196.026	4590.39	4631.27
Sn 189.925	4698.86	4819.66
Sr 216.596	2352.07	2368.85
Ti 334.941	473.749	477.169
Tl 190.794	4772.39	4815.96
V 292.401	4708.79	4748.91
Zn 206.200	2350.77	2365.90

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)	QC Value
Ag 328.068	493.619	ppb	11.3721	2.3	46806.0	98.72388
Al 308.215	4694.65	ppb	24.3342	0.5	41275.4	93.89293

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Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)	QC Value
As 188.980	465.744	ppb	5.0536	1.1	538.138	93.14885
B 249.678	458.296	ppb	3.6468	0.8	8961.04	91.65927
Ba 389.178	4792.66	ppb	25.2877	0.5	158188	95.85314
Be 313.042	476.616	ppb	2.3157	0.5	1273340	95.32322
Ca 370.602	5051	ppb	23.98	0.5	28460	101.01380
Cd 226.502	472.909	ppb	1.8646	0.4	41854.0	94.58170
Co 228.615	470.351	ppb	1.9435	0.4	9225.79	94.07013
Cr 267.716	4888.77	ppb	16.1453	0.3	395464	97.77544
Cu 324.754	5028.95	ppb	68.1311	1.4	342046	100.57909
Fe 271.441	4661.49	ppb	17.7517	0.4	12917.1	93.22987
K 766.491	9389.59	ppb	29.9257	0.3	580967	93.89589
Mg 279.078	4646.23	ppb	19.3731	0.4	24325.0	92.92458
Mn 257.610	4762.90	ppb	17.5387	0.4	1614858	95.25809
Mo 202.032	480.916	ppb	1.6859	0.4	4377.88	96.18328
Na 330.237	6488.48	ppb	116.916	1.8	719.580	86.51313Q
Ni 231.604	2347.85	ppb	9.3316	0.4	12583.5	93.91386
Pb 220.353	471.598	ppb	1.5155	0.3	1598.06	94.31956
Sb 206.834	957.719	ppb	7.8737	0.8	1701.41	95.77187
Se 196.026	4613.48	ppb	20.9469	0.5	3580.80	92.26950
Sn 189.925	4760.22	ppb	60.4223	1.3	7686.83	95.20438
Sr 216.596	2360.38	ppb	8.3875	0.4	55251.3	94.41538
Ti 334.941	475.604	ppb	1.7286	0.4	157185	95.12080
Tl 190.794	4790.56	ppb	22.6646	0.5	8848.74	95.81128
V 292.401	4732.79	ppb	21.1895	0.4	180852	94.65581
Zn 206.200	2361.32	ppb	9.1683	0.4	7047.75	94.45297

Cont Calib Blank (CCB) 8/20/2015, 8:15:24 AM

Weight: 1 Volume: 1

Rack 4, Tube 38

Dilution: 1

Label	Replicates	Concentration
Ag 328.068	-0.1733u	0.0507
	-19.7048u	-18.1287u
Al 308.215		-20.1274u
As 188.980	0.0403	-1.3543u
B 249.678	3.1233	2.7194
Ba 389.178	1.0610	1.0606
Be 313.042	0.0276	0.0184
Ca 370.602	8.207	6.697
Cd 226.502	0.3374	0.4288
Co 228.615	0.1826	0.7351
Cr 267.716	-0.2011u	-0.0288u
Cu 324.754	0.1754	0.0427
Fe 271.441	-8.0425u	2.6590
K 766.491	-1.2489u	-0.6494u
Mg 279.078	-4.4889u	-4.4172u
Mn 257.610	0.0288	0.0714
Mo 202.032	0.0852	0.3411
Na 330.237	-215.621u	-383.255u
Ni 231.604	2.3121	1.3046
Pb 220.353	0.2757	1.4551
Sb 206.834	-11.5756u	-6.2528u
Se 196.026	1.3451	7.4018
Sn 189.925	0.5526	2.1723
Sr 216.596	-0.3816u	0.3392
Ti 334.941	0.0098	0.0214
		0.0462

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Label	Replicates Concentration					
Tl 190.794	1.2036	0.6516	-1.4172u			
V 292.401	0.5957	0.5527	0.2636			
Zn 206.200	0.5587	0.6786	0.3138			

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)	QC Value
Ag 328.068	-0.2976	ppb	0.4244	142.6	-16.7322	-0.29761
Al 308.215	-19.3203	ppb	1.0534	5.5	527.056	-19.32027
As 188.980	0.6787	ppb	2.4163	356.0	-11.7756	0.67870
B 249.678	3.0456	ppb	0.2952	9.7	154.392	3.04559
Ba 389.178	1.1166	ppb	0.0967	8.7	-175.837	1.11664
Be 313.042	0.0218	ppb	0.0051	23.3	-653.264	0.02178
Ca 370.602	6.989	ppb	1.101	15.8	3.649	6.98892
Cd 226.502	0.3544	ppb	0.0675	19.0	122.338	0.35440
Co 228.615	0.3543	ppb	0.3303	93.2	-64.4033	0.35431
Cr 267.716	-0.1548	ppb	0.1103	71.3	30.8930	-0.15475
Cu 324.754	0.2524	ppb	0.2570	101.8	238.847	0.25236
Fe 271.441	-4.9652	ppb	6.6436	133.8	141.894	-4.96520
K 766.491	-1.0507	ppb	0.3475	33.1	463.998	-1.05069
Mg 279.078	-3.2465	ppb	2.0902	64.4	92.6883	-3.24648
Mn 257.610	0.0368	ppb	0.0314	85.4	49.4296	0.03679
Mo 202.032	0.2768	ppb	0.1689	61.0	30.0351	0.27683
Na 330.237	-219.640	ppb	161.642	73.6	164.354	-219.64034
Ni 231.604	1.3707	ppb	0.9101	66.4	-2.1348	1.37073
Pb 220.353	0.3261	ppb	1.1046	338.7	63.5709	0.32612
Sb 206.834	-8.5209	ppb	2.7472	32.2	25.9217	-8.52087
Se 196.026	3.7530	ppb	3.2133	85.6	-6.9592	3.75302
Sn 189.925	1.2297	ppb	0.8418	68.5	-28.2876	1.22971
Sr 216.596	-0.0426	ppb	0.3623	849.9	57.8055	-0.04263
Ti 334.941	0.0258	ppb	0.0186	72.0	13.5827	0.02579
Tl 190.794	0.1460	ppb	1.3816	946.4	-50.9464	0.14599
V 292.401	0.4707	ppb	0.1806	38.4	-10.7336	0.47065
Zn 206.200	0.5170	ppb	0.1859	36.0	3.2093	0.51702

680-115776-c-28-a (Samp)      8/20/2015, 8:20:03 AM      Rack 4, Tube 39  
 Weight: 1      Volume: 1      Dilution: 1

Label	Replicates Concentration		
Ag 328.068	-0.7208u	-1.0653u	-0.8324u
Al 308.215	34485.0	34603.4	33782.0
As 188.980	9.5792	8.9604	9.3238
B 249.678	1.7025u	1.3819u	2.6897u
Ba 389.178	89.2255	88.5673	87.4050
Be 313.042	0.3910	0.3854	0.3888
Ca 370.602	335.1	334.5	323.2
Cd 226.502	0.2663	0.3340	0.0773
Co 228.615	2.3694	3.2056	2.3758
Cr 267.716	47.5942	47.6264	47.0489
Cu 324.754	15.8346	16.0760	15.0887
Fe 271.441	22441.5	22588.8	22169.8
K 766.491	636.355	641.667	622.639
Mg 279.078	794.021	801.743	783.064
Mn 257.610	84.3486	85.0568	83.3476
Mo 202.032	2.1583	2.1320	2.6026
Na 330.237	-385.530u	-203.156u	-76.1746u

E08192015.wvq. All Data Report 8/20/2015, 3:03:52 PM

Label	Replicates	Concentration			
Ni 231.604	8.9559	9.5585	9.0843		
Pb 220.353	22.5091	22.3163	22.8852		
Sb 206.834	-3.7078u	-5.2477u	-2.5094u		
Se 196.026	0.1598u	2.4672	-1.0000u		
Sn 189.925	10.9919	11.4829	11.7242		
Sr 216.596	4.1876	4.1250	3.7821		
Ti 334.941	454.643	453.299	446.319		
Tl 190.794	0.9065u	4.2596	-1.9108u		
V 292.401	83.4819	84.5064	82.6546		
Zn 206.200	30.2470	29.9208	30.3369		

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.8728	ppb	0.1758	20.1	-74.8483
Al 308.215	34290.2	ppb	444.038	1.3	292317
As 188.980	9.2878	ppb	0.3110	3.3	-1.8500
B 249.678	1.9247	ppb	0.6817	35.4	72.8889
Ba 389.178	88.3993	ppb	0.9218	1.0	2728.63
Be 313.042	0.3884	ppb	0.0028	0.7	336.922
Ca 370.602	330.9	ppb	6.728	2.0	1638
Cd 226.502	0.2259	ppb	0.1330	58.9	242.762
Co 228.615	2.6503	ppb	0.4809	18.1	-3.4307
Cr 267.716	47.4232	ppb	0.3245	0.7	3889.74
Cu 324.754	15.6664	ppb	0.5147	3.3	1294.58
Fe 271.441	22400.0	ppb	212.557	0.9	60638.3
K 766.491	633.554	ppb	9.8183	1.5	39693.4
Mg 279.078	792.942	ppb	9.3860	1.2	4247.21
Mn 257.610	84.2510	ppb	0.8587	1.0	28713.9
Mo 202.032	2.2977	ppb	0.2645	11.5	46.8318
Na 330.237	-221.620	ppb	155.502	70.2	154.939
Ni 231.604	9.1995	ppb	0.3174	3.5	41.9938
Pb 220.353	22.5702	ppb	0.2894	1.3	138.212
Sb 206.834	-3.8216	ppb	1.3727	35.9	33.9934
Se 196.026	0.5423	ppb	1.7649	325.4	-9.5947
Sn 189.925	11.3997	ppb	0.3732	3.3	-11.8004
Sr 216.596	4.0315	ppb	0.2183	5.4	210.942
Ti 334.941	451.420	ppb	4.4686	1.0	149190
Tl 190.794	1.0851	ppb	3.0890	284.7	-52.3501
V 292.401	83.5477	ppb	0.9276	1.1	3172.86
Zn 206.200	30.1683	ppb	0.2189	0.7	91.7991

680-115776-c-22-a (Samp)      8/20/2015, 8:24:42 AM      Rack 4, Tube 40  
 Weight: 1      Volume: 1      Dilution: 1

Label	Replicates	Concentration			
Ag 328.068	-0.3103u	-0.2147u	-0.7959u		
Al 308.215	90665.0	87966.4	88607.5		
As 188.980	18.9833	17.5061	17.0470		
B 249.678	-1.1970u	-0.3351u	-0.0371u		
Ba 389.178	144.574	141.426	142.006		
Be 313.042	0.5429	0.5355	0.5372		
Ca 370.602	1871	1813	1833		
Cd 226.502	-0.2772	-0.5263	-0.2554		
Co 228.615	5.3648	5.2173	5.4734		
Cr 267.716	120.838	117.116	117.993		

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Label	Replicates Concentration			
Cu 324.754	39.5690	38.7949	40.6672	
Fe 271.441	78253.8	76031.1	76561.1	
K 766.491	2289.06	2228.61	2225.36	
Mg 279.078	2526.63	2456.30	2467.65	
Mn 257.610	177.670	172.479	173.791	
Mo 202.032	7.0270	6.1450	7.2712	
Na 330.237	-200.742u	-330.102u	-341.451u	
Ni 231.604	14.1783	13.6745	13.1695	
Pb 220.353	38.8790	39.2541	40.4234	
Sb 206.834	-2.3131u	-7.1842u	-10.5723u	
Se 196.026	-1.2786u	4.3978	-5.4376u	
Sn 189.925	16.6270	16.2181	15.5437	
Sr 216.596	8.1729	7.7947	7.7142	
Ti 334.941	720.671	701.034	704.285	
Tl 190.794	3.4403u	3.2670u	5.5100u	
V 292.401	263.386	256.128	258.597	
Zn 206.200	60.8663	58.5912	59.6013	

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.4403	ppb	0.3117	70.8	-43.0792
Al 308.215	89079.6	ppb	1409.87	1.6	758289
As 188.980	17.8455	ppb	1.0117	5.7	7.6405
B 249.678	-0.5231	ppb	0.6024	115.2	-120.167
Ba 389.178	142.669	ppb	1.6752	1.2	4570.69
Be 313.042	0.5385	ppb	0.0039	0.7	757.945
Ca 370.602	1839	ppb	29.26	1.6	8866
Cd 226.502	-0.3530	ppb	0.1505	42.6	516.145
Co 228.615	5.3519	ppb	0.1285	2.4	57.2381
Cr 267.716	118.649	ppb	1.9457	1.6	9672.50
Cu 324.754	39.6770	ppb	0.9408	2.4	2946.38
Fe 271.441	76948.7	ppb	1160.91	1.5	207925
K 766.491	2247.68	ppb	35.8751	1.6	139474
Mg 279.078	2483.53	ppb	37.7608	1.5	13085.3
Mn 257.610	174.647	ppb	2.6993	1.5	59634.2
Mo 202.032	6.8144	ppb	0.5924	8.7	84.1113
Na 330.237	-290.765	ppb	78.1681	26.9	126.768
Ni 231.604	13.6741	ppb	0.5044	3.7	71.1863
Pb 220.353	39.5188	ppb	0.8055	2.0	200.710
Sb 206.834	-6.6899	ppb	4.1518	62.1	29.1770
Se 196.026	-0.7728	ppb	4.9372	638.9	-10.9981
Sn 189.925	16.1296	ppb	0.5470	3.4	-4.1327
Sr 216.596	7.8939	ppb	0.2449	3.1	442.686
Ti 334.941	708.663	ppb	10.5253	1.5	234214
Tl 190.794	4.0724	ppb	1.2480	30.6	-54.6617
V 292.401	259.371	ppb	3.6904	1.4	9905.18
Zn 206.200	59.6863	ppb	1.1399	1.9	179.793

680-115776-c-26-a (Samp)      8/20/2015, 8:29:21 AM      Rack 4, Tube 41  
 Weight: 1      Volume: 1      Dilution: 1

Label	Replicates Concentration			
Ag 328.068	0.2703	-0.4189u	-0.1720u	
Al 308.215	119649	120599	121538	
As 188.980	30.7555	26.1648	30.1876	

Label	Replicates	Concentration				
B 249.678	-0.6862u	-1.3786u	-2.7931u			
Ba 389.178	145.381	148.147	149.209			
Be 313.042	0.6789	0.6940	0.6898			
Ca 370.602	1072	1078	1080			
Cd 226.502	-0.8459	-0.9272	-0.8835			
Co 228.615	4.3846	4.4402	3.6643			
Cr 267.716	152.224	152.915	154.165			
Cu 324.754	53.0582	52.8041	53.6932			
Fe 271.441	116411	117342	118003			
K 766.491	1201.65	1216.34	1225.45			
Mg 279.078	1458.45	1471.76	1475.98			
Mn 257.610	114.125	115.072	115.747			
Mo 202.032	7.3740	7.4732	6.9746			
Na 330.237	-464.827u	-276.151u	-345.441u			
Ni 231.604	14.7733	15.0848	15.3791			
Pb 220.353	50.3310	47.9684	45.2558			
Sb 206.834	-5.2141u	-2.8282u	-4.2276u			
Se 196.026	5.2363	3.5889	5.0113			
Sn 189.925	19.5213	18.3611	19.0110			
Sr 216.596	7.8977	8.2546	8.4309			
Ti 334.941	640.125	649.266	651.786			
Tl 190.794	4.1448u	5.7334u	5.9429u			
V 292.401	309.501	312.753	314.255			
Zn 206.200	67.8614	69.1261	68.9825			

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.1069	ppb	0.3492	326.8	-19.1384
Al 308.215	120595	ppb	944.836	0.8	1026318
As 188.980	29.0360	ppb	2.5026	8.6	20.4140
B 249.678	-1.6193	ppb	1.0738	66.3	-249.043
Ba 389.178	147.579	ppb	1.9762	1.3	4763.29
Be 313.042	0.6876	ppb	0.0078	1.1	1163.50
Ca 370.602	1077	ppb	4.473	0.4	3623
Cd 226.502	-0.8855	ppb	0.0407	4.6	709.905
Co 228.615	4.1630	ppb	0.4328	10.4	30.0637
Cr 267.716	153.101	ppb	0.9836	0.6	12474.4
Cu 324.754	53.1852	ppb	0.4579	0.9	3880.07
Fe 271.441	117252	ppb	799.683	0.7	316746
K 766.491	1214.48	ppb	12.0060	1.0	75604.6
Mg 279.078	1468.73	ppb	9.1453	0.6	7733.60
Mn 257.610	114.981	ppb	0.8148	0.7	39581.4
Mo 202.032	7.2739	ppb	0.2640	3.6	85.6929
Na 330.237	-362.140	ppb	95.4397	26.4	104.298
Ni 231.604	15.0791	ppb	0.3030	2.0	82.5655
Pb 220.353	47.8517	ppb	2.5396	5.3	233.742
Sb 206.834	-4.0900	ppb	1.1989	29.3	33.2007
Se 196.026	4.6122	ppb	0.8933	19.4	-7.1394
Sn 189.925	18.9645	ppb	0.5815	3.1	0.4629
Sr 216.596	8.1944	ppb	0.2717	3.3	554.152
Ti 334.941	647.059	ppb	6.1357	0.9	213861
Tl 190.794	5.2737	ppb	0.9833	18.6	-58.5694
V 292.401	312.170	ppb	2.4305	0.8	11924.7
Zn 206.200	68.6567	ppb	0.6925	1.0	206.428

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Weight: 1 Volume: 1

Rack 4, Tube 42

Dilution: 1

Label	Replicates	Concentration			
Ag 328.068	-0.3942u	-0.5073u	0.2431u		
Al 308.215	94082.1	97813.5	94699.3		
As 188.980	46.6206	48.2998	47.4627		
B 249.678	-5.0762u	-5.8154u	-5.3384u		
Ba 389.178	101.939	106.456	103.215		
Be 313.042	2.3788	2.4609	2.3833		
Ca 370.602	929.4	936.8	930.2		
Cd 226.502	-1.6148	-1.4248	-1.6051		
Co 228.615	3.7400	3.8918	3.5861		
Cr 267.716	327.824	340.026	329.920		
Cu 324.754	40.8154	43.0067	41.8024		
Fe 271.441	181624	186796	183165		
K 766.491	783.876	825.080	803.317		
Mg 279.078	959.771	993.579	964.810		
Mn 257.610	216.123	226.023	219.016		
Mo 202.032	9.7492	10.1141	9.0523		
Na 330.237	-453.500u	-480.442u	-461.640u		
Ni 231.604	10.9144	11.3505	11.6362		
Pb 220.353	56.8260	62.5305	58.3072		
Sb 206.834	-11.1467u	-5.7111u	-8.2354u		
Se 196.026	2.3695	3.8944	5.0623		
Sn 189.925	18.2223	16.2765	17.2659		
Sr 216.596	-2.4394	-1.1418	-0.9622		
Ti 334.941	594.279	617.170	595.269		
Tl 190.794	4.0159u	5.2116u	8.9740u		
V 292.401	489.649	507.977	493.331		
Zn 206.200	44.6034	45.4233	44.0881		

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.2194	ppb	0.4046	184.4	-41.2716
Al 308.215	95531.7	ppb	2000.11	2.1	813206
As 188.980	47.4610	ppb	0.8396	1.8	41.4415
B 249.678	-5.4100	ppb	0.3747	6.9	-500.231
Ba 389.178	103.870	ppb	2.3285	2.2	3372.33
Be 313.042	2.4077	ppb	0.0462	1.9	5769.93
Ca 370.602	932.2	ppb	4.026	0.4	1176
Cd 226.502	-1.5482	ppb	0.1070	6.9	1049.10
Co 228.615	3.7393	ppb	0.1529	4.1	18.0637
Cr 267.716	332.590	ppb	6.5244	2.0	27017.3
Cu 324.754	41.8749	ppb	1.0975	2.6	3135.37
Fe 271.441	183862	ppb	2655.67	1.4	496599
K 766.491	804.091	ppb	20.6133	2.6	50235.6
Mg 279.078	972.720	ppb	18.2395	1.9	5141.75
Mn 257.610	220.387	ppb	5.0906	2.3	75620.5
Mo 202.032	9.6385	ppb	0.5395	5.6	102.710
Na 330.237	-465.194	ppb	13.8185	3.0	68.4546
Ni 231.604	11.3004	ppb	0.3635	3.2	68.5821
Pb 220.353	59.2212	ppb	2.9601	5.0	282.833
Sb 206.834	-8.3644	ppb	2.7201	32.5	27.6049
Se 196.026	3.7754	ppb	1.3504	35.8	-8.2567
Sn 189.925	17.2549	ppb	0.9730	5.6	-2.3089
Sr 216.596	-1.5144	ppb	0.8061	53.2	499.643

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Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ti 334.941	602.239	ppb	12.9402	2.1	199056
Tl 190.794	6.0672	ppb	2.5874	42.6	-66.7853
V 292.401	496.986	ppb	9.6951	2.0	18993.0
Zn 206.200	44.7049	ppb	0.6734	1.5	133.067

680-115776-c-25-a (Samp)      8/20/2015, 8:38:38 AM      Rack 4, Tube 43  
 Weight: 1      Volume: 1      Dilution: 1

Label	Replicates	Concentration				
Ag 328.068	-0.8834u	-0.8406u	-0.7841u			
Al 308.215	11600.3	11461.4	11640.0			
As 188.980	7.8701	9.1891	10.6214			
B 249.678	-0.0634u	0.6446u	0.8750u			
Ba 389.178	-0.2087	0.7745	0.5893			
Be 313.042	0.1547	0.1595	0.1517			
Ca 370.602	12.26u	13.65	11.53u			
Cd 226.502	0.2033	0.2174	0.2223			
Co 228.615	0.8275	1.3125	0.8482			
Cr 267.716	18.2746	18.1335	18.5128			
Cu 324.754	9.8522	9.5902	9.6658			
Fe 271.441	13730.4	13592.7	13840.0			
K 766.491	126.011	124.133	126.190			
Mg 279.078	40.0672	39.9594	41.7485			
Mn 257.610	15.7701	15.6242	15.9016			
Mo 202.032	1.3492	1.7295	1.1456			
Na 330.237	-362.235u	-270.566u	-175.607u			
Ni 231.604	0.4692	1.9218	1.9798			
Pb 220.353	9.9313	11.3292	7.6983			
Sb 206.834	-10.5799u	-2.7824u	-5.8070u			
Se 196.026	-1.7367u	1.4103	1.6106			
Sn 189.925	11.9248	9.3837	10.1888			
Sr 216.596	0.6244	0.6138	0.5684			
Ti 334.941	304.936	303.824	307.434			
Tl 190.794	2.2804	3.5731	3.5587			
V 292.401	82.0189	81.3158	82.7517			
Zn 206.200	7.2704	5.9186	7.8740			

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.8360	ppb	0.0498	6.0	-70.1034
Al 308.215	11567.2	ppb	93.8123	0.8	99074.5
As 188.980	9.2269	ppb	1.3761	14.9	-1.8210
B 249.678	0.4854	ppb	0.4890	100.8	68.2002
Ba 389.178	0.3850	ppb	0.5224	135.7	-188.528
Be 313.042	0.1553	ppb	0.0039	2.5	-288.782
Ca 370.602	12.48	ppb	1.077	8.6	-37.18
Cd 226.502	0.2143	ppb	0.0098	4.6	190.570
Co 228.615	0.9961	ppb	0.2742	27.5	-41.1269
Cr 267.716	18.3070	ppb	0.1917	1.0	1529.70
Cu 324.754	9.7027	ppb	0.1348	1.4	885.690
Fe 271.441	13721.0	ppb	123.915	0.9	37204.2
K 766.491	125.445	ppb	1.1393	0.9	8283.59
Mg 279.078	40.5917	ppb	1.0033	2.5	313.952
Mn 257.610	15.7653	ppb	0.1388	0.9	5446.16
Mo 202.032	1.4081	ppb	0.2964	21.0	39.3134

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Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Na 330.237	-269.469	ppb	93.3188	34.6	154.537
Ni 231.604	1.4569	ppb	0.8559	58.7	-0.3701
Pb 220.353	9.6529	ppb	1.8314	19.0	95.5457
Sb 206.834	-6.3898	ppb	3.9313	61.5	29.4557
Se 196.026	0.4281	ppb	1.8774	438.6	-9.6441
Sn 189.925	10.4991	ppb	1.2987	12.4	-13.2604
Sr 216.596	0.6022	ppb	0.0298	4.9	108.509
Ti 334.941	305.398	ppb	1.8484	0.6	100931
Tl 190.794	3.1374	ppb	0.7422	23.7	-47.2749
V 292.401	82.0288	ppb	0.7180	0.9	3115.42
Zn 206.200	7.0210	ppb	1.0013	14.3	22.5746

680-115776-c-21-a (Samp)

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Rack 4, Tube 44

Weight: 1

Volume: 1

Dilution: 1

Label	Replicates	Concentration				
Ag 328.068	0.0833u	-0.5353u	0.1248			
Al 308.215	69742.6	70149.8	70059.0			
As 188.980	15.7153	14.2111	18.8516			
B 249.678	0.7020u	0.1772u	-0.1903u			
Ba 389.178	83.4226	83.5772	82.2985			
Be 313.042	0.3568	0.3461	0.3531			
Ca 370.602	382.2	383.8	383.1			
Cd 226.502	-0.2592	-0.1127	-0.2150			
Co 228.615	2.3006	2.3665	3.0144			
Cr 267.716	82.9458	83.4263	83.1537			
Cu 324.754	31.8863	32.0442	30.4999			
Fe 271.441	57714.6	58039.0	57991.5			
K 766.491	669.310	675.030	677.047			
Mg 279.078	752.640	753.752	752.708			
Mn 257.610	39.6816	39.9117	39.8176			
Mo 202.032	3.3498	3.7388	3.2773			
Na 330.237	-404.671u	-205.981u	-305.869u			
Ni 231.604	9.5914	10.6379	11.0851			
Pb 220.353	28.7209	30.9415	31.9311			
Sb 206.834	-9.8332u	-5.9815u	-7.4226u			
Se 196.026	-3.3027u	2.3063	-1.6746u			
Sn 189.925	16.6711	14.6866	15.6599			
Sr 216.596	5.0368	5.7249	5.0906			
Ti 334.941	504.738	509.003	507.743			
Tl 190.794	3.6135u	-2.5336u	4.7745			
V 292.401	149.272	151.074	150.673			
Zn 206.200	32.7160	32.7462	34.0670			

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.1091	ppb	0.3697	339.0	-9.0670
Al 308.215	69983.8	ppb	213.773	0.3	595877
As 188.980	16.2594	ppb	2.3676	14.6	5.9863
B 249.678	0.2297	ppb	0.4485	195.3	-54.8294
Ba 389.178	83.0994	ppb	0.6979	0.8	2582.38
Be 313.042	0.3520	ppb	0.0055	1.6	248.820
Ca 370.602	383.0	ppb	0.8011	0.2	1108
Cd 226.502	-0.1957	ppb	0.0751	38.4	417.354
Co 228.615	2.5605	ppb	0.3945	15.4	-4.4714

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<b>Label</b>	<b>Sol'n Conc.</b>	<b>Units</b>	<b>SD</b>	<b>%RSD</b>	<b>Int. (c/s)</b>
Cr 267.716	83.1753	ppb	0.2410	0.3	6795.22
Cu 324.754	31.4768	ppb	0.8497	2.7	2382.70
Fe 271.441	57915.0	ppb	175.223	0.3	156531
K 766.491	673.795	ppb	4.0135	0.6	42181.1
Mg 279.078	753.033	ppb	0.6234	0.1	4013.46
Mn 257.610	39.8036	ppb	0.1157	0.3	13809.8
Mo 202.032	3.4553	ppb	0.2482	7.2	55.0154
Na 330.237	-305.507	ppb	99.3455	32.5	133.376
Ni 231.604	10.4381	ppb	0.7666	7.3	52.0263
Pb 220.353	30.5311	ppb	1.6439	5.4	168.995
Sb 206.834	-7.7458	ppb	1.9460	25.1	27.3042
Se 196.026	-0.8903	ppb	2.8856	324.1	-10.9972
Sn 189.925	15.6725	ppb	0.9923	6.3	-4.8736
Sr 216.596	5.2841	ppb	0.3827	7.2	332.408
Ti 334.941	507.161	ppb	2.1907	0.4	167617
Tl 190.794	1.9515	ppb	3.9273	201.3	-56.0849
V 292.401	150.340	ppb	0.9459	0.6	5729.39
Zn 206.200	33.1764	ppb	0.7714	2.3	100.531

680-115776-c-10-a (Samp)

8/20/2015, 8:47:56 AM

Rack 4, Tube 45

Weight: 1

Volume: 1

Dilution: 1

<b>Label</b>	<b>Replicates</b>	<b>Concentration</b>
Ag 328.068	-0.1651u	-0.6274u
Al 308.215	16782.5	17294.3
As 188.980	2.8958	2.1621
B 249.678	0.7237u	1.0520u
Ba 389.178	6.2590	6.3062
Be 313.042	0.4383	0.4488
Ca 370.602	36.42u	37.05u
Cd 226.502	0.1664	0.1806
Co 228.615	1.2787	1.1821
Cr 267.716	17.2714	17.8378
Cu 324.754	8.7043	10.4424
Fe 271.441	11877.2	12312.6
K 766.491	91.7880	94.9320
Mg 279.078	50.9150	47.4006
Mn 257.610	8.7678	9.1297
Mo 202.032	0.2017	0.6225
Na 330.237	-207.505u	-185.403u
Ni 231.604	7.0016	6.1259
Pb 220.353	8.7247	7.8313
Sb 206.834	-0.4368u	-12.7738u
Se 196.026	-0.3470u	1.6421
Sn 189.925	11.9778	11.4368
Sr 216.596	1.6327	1.8434
Ti 334.941	75.3311	78.4756
Tl 190.794	-1.2120u	1.6517
V 292.401	43.7641	44.8455
Zn 206.200	4.6385	6.0340

<b>Label</b>	<b>Sol'n Conc.</b>	<b>Units</b>	<b>SD</b>	<b>%RSD</b>	<b>Int. (c/s)</b>
Ag 328.068	-0.3306	ppb	0.2576	77.9	-21.9450
Al 308.215	16903.9	ppb	346.061	2.0	144454

E08192015.wvq. All Data Report 8/20/2015, 3:03:52 PM

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
As 188.980	3.2933	ppb	1.3738	41.7	-8.8212
B 249.678	0.7917	ppb	0.2339	29.5	78.7011
Ba 389.178	6.3922	ppb	0.1912	3.0	8.4727
Be 313.042	0.4404	ppb	0.0076	1.7	471.010
Ca 370.602	37.02	ppb	0.5828	1.6	-56.28
Cd 226.502	0.2055	ppb	0.0559	27.2	180.535
Co 228.615	1.1072	ppb	0.2188	19.8	-47.1668
Cr 267.716	17.4024	ppb	0.3869	2.2	1455.76
Cu 324.754	9.8697	ppb	1.0093	10.2	896.838
Fe 271.441	12010.8	ppb	261.919	2.2	32585.9
K 766.491	92.5439	ppb	2.1141	2.3	6249.75
Mg 279.078	49.6136	ppb	1.9264	3.9	357.770
Mn 257.610	8.8791	ppb	0.2175	2.4	3103.68
Mo 202.032	0.4435	ppb	0.2173	49.0	30.7350
Na 330.237	-207.458	ppb	22.0314	10.6	160.442
Ni 231.604	6.4930	ppb	0.4547	7.0	26.4879
Pb 220.353	7.3461	ppb	1.6747	22.8	87.8527
Sb 206.834	-5.4227	ppb	6.4997	119.9	31.0991
Se 196.026	1.9326	ppb	2.4379	126.1	-8.4634
Sn 189.925	12.5139	ppb	1.4231	11.4	-9.9941
Sr 216.596	1.7106	ppb	0.1156	6.8	129.766
Ti 334.941	76.3770	ppb	1.8175	2.4	25247.7
Tl 190.794	0.4440	ppb	1.4836	334.1	-52.1150
V 292.401	44.0572	ppb	0.6902	1.6	1658.58
Zn 206.200	5.0304	ppb	0.8761	17.4	16.6086

680-115776-c-23-a (Samp)

8/20/2015, 8:52:34 AM

Rack 4, Tube 46

Weight: 1

Volume: 1

Dilution: 1

Label	Replicates	Concentration
Ag 328.068	-0.3531u	-0.6298u
Al 308.215	24605.6	24405.2
As 188.980	11.5323	11.5904
B 249.678	-0.9125u	-0.5322u
Ba 389.178	12.4800	11.7265
Be 313.042	0.2509	0.2476
Ca 370.602	100.1u	98.16u
Cd 226.502	-0.0896	-0.2413
Co 228.615	1.1702	1.3309
Cr 267.716	51.1079	51.1354
Cu 324.754	8.1099	9.5218
Fe 271.441	43837.3	43496.3
K 766.491	129.558	127.533
Mg 279.078	93.3472	89.0230
Mn 257.610	28.3770	28.1237
Mo 202.032	2.0180	2.3335
Na 330.237	-180.028u	-197.993u
Ni 231.604	1.9875	2.3732
Pb 220.353	18.5604	16.0081
Sb 206.834	-1.3825u	-6.6647u
Se 196.026	1.2382	5.6543
Sn 189.925	13.6120	13.1783
Sr 216.596	2.8685	2.6922
Ti 334.941	211.252	211.538

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Label	Replicates Concentration			
Tl 190.794	3.2017u	2.0562u	3.3574	
V 292.401	175.344	173.141	170.305	
Zn 206.200	5.4242	5.5010	5.6252	

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.5164	ppb	0.1450	28.1	-45.1206
Al 308.215	24297.8	ppb	373.224	1.5	207355
As 188.980	11.7809	ppb	0.3813	3.2	0.8573
B 249.678	-0.6035	ppb	0.2803	46.4	-31.9941
Ba 389.178	12.0537	ppb	0.3864	3.2	221.439
Be 313.042	0.2455	ppb	0.0068	2.8	-39.6450
Ca 370.602	98.07	ppb	2.099	2.1	-364.1
Cd 226.502	-0.1972	ppb	0.0937	47.5	331.448
Co 228.615	1.2843	ppb	0.0994	7.7	-39.9786
Cr 267.716	50.7404	ppb	0.6606	1.3	4163.55
Cu 324.754	9.2157	ppb	0.9889	10.7	863.199
Fe 271.441	43324.5	ppb	616.847	1.4	117136
K 766.491	127.351	ppb	2.3035	1.8	8401.44
Mg 279.078	90.0566	ppb	2.9147	3.2	564.090
Mn 257.610	28.0425	ppb	0.3817	1.4	9746.80
Mo 202.032	2.0834	ppb	0.2247	10.8	43.4587
Na 330.237	-222.039	ppb	57.9077	26.1	146.381
Ni 231.604	2.3036	ppb	0.2877	12.5	6.9839
Pb 220.353	16.7897	ppb	1.5370	9.2	123.489
Sb 206.834	-5.0762	ppb	3.2092	63.2	31.5326
Se 196.026	2.9479	ppb	2.3708	80.4	-7.9048
Sn 189.925	13.3655	ppb	0.2229	1.7	-8.6136
Sr 216.596	2.7573	ppb	0.0968	3.5	235.792
Ti 334.941	209.571	ppb	3.1633	1.5	69268.2
Tl 190.794	2.8718	ppb	0.7106	24.7	-52.0785
V 292.401	172.930	ppb	2.5261	1.5	6594.55
Zn 206.200	5.5168	ppb	0.1015	1.8	17.7927

680-115776-c-18-a (Samp)      8/20/2015, 8:57:13 AM      Rack 4, Tube 47  
 Weight: 1      Volume: 1      Dilution: 1

Label	Replicates Concentration			
Ag 328.068	-0.3175u	-0.4208u	-0.7400u	
Al 308.215	11349.1	11318.5	11362.7	
As 188.980	3.3313	4.6721	7.1502	
B 249.678	0.1280u	-0.2068u	-0.1066u	
Ba 389.178	6.5297	6.3964	5.8472	
Be 313.042	0.1299	0.1275	0.1394	
Ca 370.602	71.46	70.33	66.19	
Cd 226.502	0.3122	0.0821	0.1960	
Co 228.615	0.8766	0.4379	1.0528	
Cr 267.716	19.2856	19.0574	19.0343	
Cu 324.754	11.9342	11.0732	11.5874	
Fe 271.441	17903.7	17886.6	17920.3	
K 766.491	116.448	117.800	116.451	
Mg 279.078	41.3465	40.3249	43.6775	
Mn 257.610	7.3417	7.2951	7.2961	
Mo 202.032	2.4888	1.2385	1.8777	
Na 330.237	-117.835u	-172.015u	-126.833u	

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Label	Replicates	Concentration			
Ni 231.604	4.1113	5.3142	4.0786		
Pb 220.353	5.9569	4.6034	4.7112		
Sb 206.834	-9.4466u	-7.2058u	-8.0595u		
Se 196.026	0.4726	1.5789	7.8629		
Sn 189.925	14.2991	14.4925	13.1587		
Sr 216.596	-0.3313	-0.1930	-0.1915		
Ti 334.941	137.554	136.346	136.772		
Tl 190.794	3.5337	1.9293	-0.6614u		
V 292.401	90.5367	90.6768	91.6258		
Zn 206.200	3.9573	4.8277	6.3628		

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.4928	ppb	0.2203	44.7	-38.3146
Al 308.215	11343.5	ppb	22.6229	0.2	97173.3
As 188.980	5.0512	ppb	1.9375	38.4	-6.8105
B 249.678	-0.0618	ppb	0.1718	278.0	46.4394
Ba 389.178	6.2578	ppb	0.3618	5.8	8.9520
Be 313.042	0.1323	ppb	0.0063	4.8	-349.858
Ca 370.602	69.33	ppb	2.774	4.0	30.94
Cd 226.502	0.1968	ppb	0.1151	58.5	214.721
Co 228.615	0.7891	ppb	0.3166	40.1	-51.5488
Cr 267.716	19.1258	ppb	0.1389	0.7	1596.84
Cu 324.754	11.5316	ppb	0.4332	3.8	1011.58
Fe 271.441	17903.5	ppb	16.8281	0.1	48497.2
K 766.491	116.900	ppb	0.7800	0.7	7755.36
Mg 279.078	41.7830	ppb	1.7184	4.1	320.721
Mn 257.610	7.3110	ppb	0.0266	0.4	2599.43
Mo 202.032	1.8683	ppb	0.6252	33.5	43.2105
Na 330.237	-138.894	ppb	29.0339	20.9	163.747
Ni 231.604	4.5014	ppb	0.7041	15.6	16.3596
Pb 220.353	5.0905	ppb	0.7523	14.8	81.6134
Sb 206.834	-8.2373	ppb	1.1310	13.7	26.3097
Se 196.026	3.3048	ppb	3.9860	120.6	-7.4415
Sn 189.925	13.9834	ppb	0.7207	5.2	-7.6117
Sr 216.596	-0.2386	ppb	0.0803	33.6	99.4806
Ti 334.941	136.891	ppb	0.6127	0.4	45245.7
Tl 190.794	1.6005	ppb	2.1168	132.3	-50.7569
V 292.401	90.9464	ppb	0.5925	0.7	3455.12
Zn 206.200	5.0493	ppb	1.2180	24.1	16.6509

680-115776-c-11-a (Samp)      8/20/2015, 9:01:51 AM      Rack 4, Tube 48  
 Weight: 1      Volume: 1      Dilution: 1

Label	Replicates	Concentration			
Ag 328.068	-2.0651u	-1.7030u	-1.7311u		
Al 308.215	32307.7	31444.6	30840.2		
As 188.980	11.3394	12.6387	13.7103		
B 249.678	1.2622	1.0658u	1.5536		
Ba 389.178	34.3604	33.3233	33.2607		
Be 313.042	0.1811	0.1921	0.1925		
Ca 370.602	-17.18	-18.37	-20.82		
Cd 226.502	0.3800	0.2321	0.3075		
Co 228.615	1.6373	2.1887	1.6273		
Cr 267.716	32.2777	31.1673	30.6563		

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Label	Replicates	Concentration				
Cu 324.754	19.5462	19.2613	18.9421			
Fe 271.441	8752.05	8543.55	8377.40			
K 766.491	362.237	353.481	346.707			
Mg 279.078	294.847	284.124	277.789			
Mn 257.610	22.9519	22.3711	21.9685			
Mo 202.032	2.2070	1.4753	1.3841			
Na 330.237	-352.744u	-255.685u	-432.116u			
Ni 231.604	9.6767	7.9277	9.3740			
Pb 220.353	30.9009	27.5377	28.5570			
Sb 206.834	-1.9632u	-5.1330u	-5.8882u			
Se 196.026	-5.4761u	-1.1499u	6.7710			
Sn 189.925	17.0434	14.8564	16.8898			
Sr 216.596	5.8414	5.1521	5.4473			
Ti 334.941	519.924	506.732	500.046			
Tl 190.794	3.7622	3.0228	0.7828			
V 292.401	68.6721	67.2496	65.8420			
Zn 206.200	16.8212	16.0641	15.3746			

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-1.8331	ppb	0.2014	11.0	-163.794
Al 308.215	31530.8	ppb	737.547	2.3	268847
As 188.980	12.5628	ppb	1.1872	9.5	2.1858
B 249.678	1.2938	ppb	0.2455	19.0	97.6237
Ba 389.178	33.6481	ppb	0.6176	1.8	906.973
Be 313.042	0.1886	ppb	0.0065	3.4	-198.419
Ca 370.602	-18.79	ppb	1.856	9.9	87.79
Cd 226.502	0.3065	ppb	0.0739	24.1	167.034
Co 228.615	1.8178	ppb	0.3213	17.7	-17.3104
Cr 267.716	31.3671	ppb	0.8289	2.6	2585.40
Cu 324.754	19.2499	ppb	0.3022	1.6	1532.86
Fe 271.441	8557.66	ppb	187.725	2.2	23262.9
K 766.491	354.141	ppb	7.7859	2.2	22421.0
Mg 279.078	285.587	ppb	8.6225	3.0	1586.34
Mn 257.610	22.4305	ppb	0.4944	2.2	7684.76
Mo 202.032	1.6888	ppb	0.4511	26.7	42.1988
Na 330.237	-346.848	ppb	88.3633	25.5	150.159
Ni 231.604	8.9928	ppb	0.9347	10.4	39.5762
Pb 220.353	28.9985	ppb	1.7245	5.9	156.740
Sb 206.834	-4.3281	ppb	2.0826	48.1	33.1918
Se 196.026	0.0483	ppb	6.2109	12847.9	-9.8976
Sn 189.925	16.2632	ppb	1.2207	7.5	-3.9159
Sr 216.596	5.4803	ppb	0.3459	6.3	209.039
Ti 334.941	508.901	ppb	10.1148	2.0	168182
Tl 190.794	2.5226	ppb	1.5514	61.5	-47.6486
V 292.401	67.2546	ppb	1.4151	2.1	2550.46
Zn 206.200	16.0866	ppb	0.7236	4.5	49.6741

Cont Calib Verif (CCV)      8/20/2015, 9:32:14 AM      Rack 4, Tube 49  
 Weight: 1      Volume: 1      Dilution: 1

Label	Replicates	Concentration				
Ag 328.068	481.101	478.306	482.387			
Al 308.215	4710.37	4671.96	4715.36			
As 188.980	454.671	459.543	451.239			

Label	Replicates	Concentration					
B 249.678	460.991	457.938	463.602				
Ba 389.178	4628.81	4570.48	4628.01				
Be 313.042	508.889	501.474	506.840				
Ca 370.602	5443	5372	5422				
Cd 226.502	475.583	471.198	475.862				
Co 228.615	475.770	469.822	475.168				
Cr 267.716	5220.94	5154.73	5191.83				
Cu 324.754	5335.61	5115.42	5186.02				
Fe 271.441	4858.02	4790.77	4856.79				
K 766.491	9610.94	9575.89	9625.41				
Mg 279.078	4780.09	4729.43	4785.35				
Mn 257.610	5009.59	4938.25	4987.04				
Mo 202.032	513.210	505.501	511.767				
Na 330.237	6686.48	6267.12	6382.10				
Ni 231.604	2389.93	2362.21	2384.72				
Pb 220.353	458.115	449.675	458.555				
Sb 206.834	917.252	907.212	914.014				
Se 196.026	4555.15	4542.57	4589.69				
Sn 189.925	4871.24	4812.83	4865.90				
Sr 216.596	2460.05	2432.13	2452.20				
Ti 334.941	506.800	499.782	505.588				
Tl 190.794	4787.07	4750.85	4797.01				
V 292.401	4839.00	4798.38	4831.85				
Zn 206.200	2420.70	2382.84	2416.11				

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)	QC Value	
Ag 328.068	480.598	ppb	2.0866	0.4	45576.2	96.11967	
Al 308.215	4699.23	ppb	23.7481	0.5	41326.7	93.98456	
As 188.980	455.151	ppb	4.1727	0.9	525.600	91.03024	
B 249.678	460.844	ppb	2.8352	0.6	9009.63	92.16875	
Ba 389.178	4609.10	ppb	33.4491	0.7	152123	92.18199	
Be 313.042	505.734	ppb	3.8287	0.8	1351166	101.14684	
Ca 370.602	5412	ppb	36.01	0.7	30469	108.24471	
Cd 226.502	474.214	ppb	2.6161	0.6	41970.2	94.84286	
Co 228.615	473.587	ppb	3.2745	0.7	9290.26	94.71735	
Cr 267.716	5189.17	ppb	33.1886	0.6	419764	103.78332	
Cu 324.754	5212.35	ppb	112.429	2.2	354512	104.24698	
Fe 271.441	4835.19	ppb	38.4789	0.8	13390.1	96.70383	
K 766.491	9604.08	ppb	25.4626	0.3	594226	96.04082	
Mg 279.078	4764.96	ppb	30.8803	0.6	24941.2	95.29910	
Mn 257.610	4978.30	ppb	36.4644	0.7	1687883	99.56594	
Mo 202.032	510.160	ppb	4.0984	0.8	4642.71	102.03191	
Na 330.237	6445.23	ppb	216.687	3.4	715.887	85.93642Q	
Ni 231.604	2378.95	ppb	14.7331	0.6	12750.3	95.15807	
Pb 220.353	455.448	ppb	5.0047	1.1	1545.78	91.08969	
Sb 206.834	912.826	ppb	5.1246	0.6	1629.03	91.28259	
Se 196.026	4562.47	ppb	24.3966	0.5	3541.19	91.24944	
Sn 189.925	4849.99	ppb	32.2938	0.7	7832.36	96.99976	
Sr 216.596	2448.13	ppb	14.3964	0.6	57305.9	97.92509	
Ti 334.941	504.056	ppb	3.7513	0.7	166588	100.81126	
Tl 190.794	4778.31	ppb	24.2961	0.5	8826.46	95.56621	
V 292.401	4823.08	ppb	21.6831	0.4	184302	96.46159	
Zn 206.200	2406.55	ppb	20.6601	0.9	7182.40	96.26201	

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Cont Calib Blank (CCB)		8/20/2015, 9:36:52 AM		Rack 4, Tube 50		
Weight: 1		Volume: 1		Dilution: 1		
Label	Replicates	Concentration				
Ag 328.068	0.4984	0.3024	0.1007			
Al 308.215	-15.4324u	-19.7386u	-21.2321u			
As 188.980	-0.5011u	1.9547	-0.0648u			
B 249.678	4.5417	2.6907	3.0160			
Ba 389.178	1.6476	2.6751	1.0262			
Be 313.042	0.0330	0.0421	0.0522			
Ca 370.602	4.761	7.455	4.514			
Cd 226.502	0.5064	0.2492	0.3717			
Co 228.615	0.0925	0.1344	0.6763			
Cr 267.716	0.1384	0.1755	-0.1813u			
Cu 324.754	0.0937	-0.7000u	0.4080			
Fe 271.441	-0.5652u	-7.7366u	-5.9916u			
K 766.491	0.0616	-0.6239u	-0.4490u			
Mg 279.078	-5.8777u	-1.5613u	-4.8137u			
Mn 257.610	0.3787	0.3166	0.4240			
Mo 202.032	0.7239	-0.0616u	-0.5216u			
Na 330.237	-131.381u	-296.547u	-221.661u			
Ni 231.604	1.9716	1.7469	1.2923			
Pb 220.353	-0.2157u	-1.9489u	-2.4424u			
Sb 206.834	1.5389	-5.6796u	-8.6760u			
Se 196.026	0.6200	4.9529	-0.8328u			
Sn 189.925	2.0178	1.1799	3.5910			
Sr 216.596	0.0384	0.2450	0.0680			
Ti 334.941	0.0563	0.0563	0.0187			
Tl 190.794	1.1596	2.8415	2.1110			
V 292.401	0.7403	0.3862	0.7423			
Zn 206.200	0.8791	0.2675	0.1063			

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)	QC Value
Ag 328.068	0.3005	ppb	0.1989	66.2	40.0242	0.30053
Al 308.215	-18.8010	ppb	3.0114	16.0	531.477	-18.80102
As 188.980	0.4629	ppb	1.3102	283.0	-12.0308	0.46293
B 249.678	3.4161	ppb	0.9883	28.9	161.543	3.41615
Ba 389.178	1.7830	ppb	0.8327	46.7	-153.820	1.78298
Be 313.042	0.0424	ppb	0.0096	22.7	-597.986	0.04244
Ca 370.602	5.577	ppb	1.631	29.3	-4.099	5.57677
Cd 226.502	0.3758	ppb	0.1286	34.2	124.220	0.37579
Co 228.615	0.3011	ppb	0.3256	108.1	-65.4393	0.30109
Cr 267.716	0.0442	ppb	0.1962	443.9	46.9875	0.04419
Cu 324.754	-0.0661	ppb	0.5710	864.2	217.188	-0.06608
Fe 271.441	-4.7645	ppb	3.7399	78.5	142.436	-4.76445
K 766.491	-0.3371	ppb	0.3562	105.7	508.112	-0.33708
Mg 279.078	-4.0842	ppb	2.2487	55.1	88.2732	-4.08423
Mn 257.610	0.3731	ppb	0.0539	14.5	163.447	0.37309
Mo 202.032	0.0469	ppb	0.6298	1342.5	27.9517	0.04691
Na 330.237	-216.530	ppb	82.7025	38.2	164.614	-216.52959
Ni 231.604	1.6703	ppb	0.3461	20.7	-0.5280	1.67027
Pb 220.353	-1.5357	ppb	1.1694	76.2	57.5250	-1.53566
Sb 206.834	-4.2722	ppb	5.2508	122.9	32.9774	-4.27221
Se 196.026	1.5800	ppb	3.0100	190.5	-8.6494	1.58004
Sn 189.925	2.2629	ppb	1.2241	54.1	-26.6126	2.26292
Sr 216.596	0.1171	ppb	0.1117	95.4	61.5010	0.11711

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Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)	QC Value
Ti 334.941	0.0437	ppb	0.0217	49.6	19.5135	0.04375
Tl 190.794	2.0374	ppb	0.8433	41.4	-47.4382	2.03736
V 292.401	0.6229	ppb	0.2050	32.9	-4.8427	0.62292
Zn 206.200	0.4176	ppb	0.4077	97.6	2.9092	0.41763

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Rack 4, Tube 51

Weight: 1

Volume: 1

Dilution: 1

Label	Replicates	Concentration				
Ag 328.068	-2.1989u	-2.0631u	-2.4295u			
Al 308.215	13783.9	13155.6	13295.8			
As 188.980	10.5062	12.3962	13.2714			
B 249.678	1.5534u	1.6285u	0.7472u			
Ba 389.178	-3.2507u	-2.1366u	-2.1425u			
Be 313.042	0.2087	0.2132	0.2165			
Ca 370.602	4.930	7.344	9.779			
Cd 226.502	0.4654	0.4095	0.1865			
Co 228.615	1.2654	1.2038	1.0978			
Cr 267.716	34.5246	32.9678	33.1297			
Cu 324.754	15.6461	16.7353	17.7368			
Fe 271.441	13052.2	12461.3	12601.8			
K 766.491	206.179	195.768	197.601			
Mg 279.078	66.9257	61.5733	62.9934			
Mn 257.610	21.3874	20.4268	20.6748			
Mo 202.032	1.0364	1.4902	2.0103			
Na 330.237	-142.375u	-446.785u	-411.726u			
Ni 231.604	2.4096	3.3866	1.7012			
Pb 220.353	19.7328	15.8646	17.2484			
Sb 206.834	-4.2898u	-11.3720u	-8.8268u			
Se 196.026	-3.5294u	-2.9561u	8.4958			
Sn 189.925	15.1576	15.3916	14.8530			
Sr 216.596	1.1177	0.8745	1.2309			
Ti 334.941	621.251	594.290	599.520			
Tl 190.794	0.5296u	2.3703	2.1149			
V 292.401	99.4918	95.5680	96.1620			
Zn 206.200	8.3265	8.3546	8.2626			

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-2.2305	ppb	0.1853	8.3	-202.178
Al 308.215	13411.8	ppb	329.831	2.5	114763
As 188.980	12.0579	ppb	1.4133	11.7	1.5405
B 249.678	1.3097	ppb	0.4886	37.3	86.8387
Ba 389.178	-2.5099	ppb	0.6415	25.6	-284.902
Be 313.042	0.2128	ppb	0.0039	1.8	-133.674
Ca 370.602	7.351	ppb	2.425	33.0	215.7
Cd 226.502	0.3538	ppb	0.1476	41.7	195.510
Co 228.615	1.1890	ppb	0.0848	7.1	-26.2906
Cr 267.716	33.5407	ppb	0.8559	2.6	2762.39
Cu 324.754	16.7061	ppb	1.0457	6.3	1361.17
Fe 271.441	12705.1	ppb	308.670	2.4	34461.7
K 766.491	199.849	ppb	5.5576	2.8	12883.1
Mg 279.078	63.8308	ppb	2.7727	4.3	434.491
Mn 257.610	20.8297	ppb	0.4987	2.4	7158.69
Mo 202.032	1.5123	ppb	0.4873	32.2	40.2985

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Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Na 330.237	-333.628	ppb	166.555	49.9	149.567
Ni 231.604	2.4991	ppb	0.8462	33.9	5.1230
Pb 220.353	17.6153	ppb	1.9600	11.1	120.879
Sb 206.834	-8.1628	ppb	3.5875	43.9	26.7862
Se 196.026	0.6701	ppb	6.7833	1012.3	-9.4461
Sn 189.925	15.1341	ppb	0.2700	1.8	-5.7464
Sr 216.596	1.0743	ppb	0.1821	17.0	116.858
Ti 334.941	605.020	ppb	14.2971	2.4	199946
Tl 190.794	1.6716	ppb	0.9972	59.7	-49.7864
V 292.401	97.0739	ppb	2.1149	2.2	3693.94
Zn 206.200	8.3146	ppb	0.0472	0.6	26.3305

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Rack 4, Tube 52

Weight: 1

Volume: 1

Dilution: 1

Label	Replicates	Concentration			
Ag 328.068	-0.0675u	-0.8334u	-1.2565u		
Al 308.215	7193.80	7240.85	7366.73		
As 188.980	8.1429	5.1366	6.0956		
B 249.678	0.6927u	1.3024u	0.6323u		
Ba 389.178	1.2097	2.5332	1.3797		
Be 313.042	0.1252	0.1257	0.1234		
Ca 370.602	49.58	47.04	48.67		
Cd 226.502	0.2509	0.3278	0.2479		
Co 228.615	1.1752	0.5262	0.7806		
Cr 267.716	16.2561	16.3155	16.7408		
Cu 324.754	13.4459	13.5187	14.5756		
Fe 271.441	11572.0	11639.7	11818.8		
K 766.491	100.054	100.466	102.725		
Mg 279.078	24.3136	23.3748	23.8972		
Mn 257.610	14.8149	14.9867	15.1660		
Mo 202.032	0.9320	1.1955	1.6116		
Na 330.237	-299.755u	-313.962u	-311.029u		
Ni 231.604	7.6284	8.9102	7.6536		
Pb 220.353	5.8624	7.5320	7.4367		
Sb 206.834	-6.7954u	-2.1852u	-9.5295u		
Se 196.026	0.4221	4.0213	1.2594		
Sn 189.925	13.5853	12.0852	11.9249		
Sr 216.596	0.6409	0.6000	0.7410		
Ti 334.941	321.963	325.918	331.767		
Tl 190.794	5.6800	1.4737	0.7707u		
V 292.401	78.7307	79.3316	80.5258		
Zn 206.200	5.9446	6.3251	7.0470		

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.7191	ppb	0.6027	83.8	-58.6516
Al 308.215	7267.13	ppb	89.4129	1.2	62504.9
As 188.980	6.4584	ppb	1.5356	23.8	-5.0729
B 249.678	0.8758	ppb	0.3707	42.3	81.1819
Ba 389.178	1.7075	ppb	0.7201	42.2	-146.528
Be 313.042	0.1247	ppb	0.0012	1.0	-371.145
Ca 370.602	48.43	ppb	1.290	2.7	229.0
Cd 226.502	0.2755	ppb	0.0453	16.5	183.676
Co 228.615	0.8273	ppb	0.3270	39.5	43.6124

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<b>Label</b>	<b>Sol'n Conc.</b>	<b>Units</b>	<b>SD</b>	<b>%RSD</b>	<b>Int. (c/s)</b>
Cr 267.716	16.4375	ppb	0.2643	1.6	1377.70
Cu 324.754	13.8467	ppb	0.6323	4.6	1166.61
Fe 271.441	11676.8	ppb	127.535	1.1	31684.7
K 766.491	101.081	ppb	1.4379	1.4	6777.51
Mg 279.078	23.8619	ppb	0.4704	2.0	229.212
Mn 257.610	14.9892	ppb	0.1756	1.2	5173.36
Mo 202.032	1.2464	ppb	0.3426	27.5	37.9784
Na 330.237	-308.249	ppb	7.5006	2.4	152.134
Ni 231.604	8.0641	ppb	0.7329	9.1	34.8770
Pb 220.353	6.9437	ppb	0.9377	13.5	86.5002
Sb 206.834	-6.1700	ppb	3.7119	60.2	29.8365
Se 196.026	1.9009	ppb	1.8834	99.1	-8.4831
Sn 189.925	12.5318	ppb	0.9159	7.3	-9.9651
Sr 216.596	0.6606	ppb	0.0725	11.0	104.250
Ti 334.941	326.549	ppb	4.9324	1.5	107920
Tl 190.794	2.6415	ppb	2.6548	100.5	-47.8870
V 292.401	79.5294	ppb	0.9138	1.1	3020.08
Zn 206.200	6.4389	ppb	0.5599	8.7	20.8432

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Rack 4, Tube 53

Weight: 1

Volume: 1

Dilution: 1

<b>Label</b>	<b>Replicates</b>	<b>Concentration</b>
Ag 328.068	-0.5506u	0.0530u
Al 308.215	29335.8	29494.4
As 188.980	26.3778	25.7748
B 249.678	-2.4800u	-2.8311u
Ba 389.178	13.2292	12.1796
Be 313.042	0.3620	0.3692
Ca 370.602	254.5u	254.4u
Cd 226.502	-0.7991	-0.5975
Co 228.615	0.9576	1.1555
Cr 267.716	70.2014	70.2178
Cu 324.754	16.0203	16.4886
Fe 271.441	80385.9	80602.3
K 766.491	176.525	178.440
Mg 279.078	110.318	113.906
Mn 257.610	7.6270	7.6099
Mo 202.032	3.3679	2.9274
Na 330.237	-258.741u	-229.891u
Ni 231.604	1.0519	2.0010
Pb 220.353	14.7497	15.0929
Sb 206.834	-8.1451u	-6.1389u
Se 196.026	8.5722	10.1677
Sn 189.925	13.7079	13.7263
Sr 216.596	-2.0058	-2.5570
Ti 334.941	211.784	212.902
Tl 190.794	4.2188u	5.3960u
V 292.401	246.515	247.233
Zn 206.200	5.8080	6.6262

<b>Label</b>	<b>Sol'n Conc.</b>	<b>Units</b>	<b>SD</b>	<b>%RSD</b>	<b>Int. (c/s)</b>
Ag 328.068	-0.1576	ppb	0.3406	216.1	-17.9561
Al 308.215	29547.8	ppb	243.121	0.8	252017

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Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
As 188.980	25.3124	ppb	1.3570	5.4	16.4324
B 249.678	-2.6201	ppb	0.1859	7.1	-171.228
Ba 389.178	13.0094	ppb	0.7446	5.7	283.711
Be 313.042	0.3654	ppb	0.0036	1.0	286.537
Ca 370.602	254.5	ppb	0.0784	0.0	-407.8
Cd 226.502	-0.5806	ppb	0.2274	39.2	521.607
Co 228.615	0.9267	ppb	0.2456	26.5	-48.2920
Cr 267.716	70.5978	ppb	0.6725	1.0	5783.45
Cu 324.754	16.0978	ppb	0.3585	2.2	1345.06
Fe 271.441	80868.9	ppb	658.180	0.8	218509
K 766.491	178.556	ppb	2.0915	1.2	11566.8
Mg 279.078	114.054	ppb	3.8115	3.3	687.130
Mn 257.610	7.6632	ppb	0.0780	1.0	3012.60
Mo 202.032	3.2131	ppb	0.2477	7.7	51.2520
Na 330.237	-230.944	ppb	27.2857	11.8	130.265
Ni 231.604	1.8462	ppb	0.7294	39.5	8.0876
Pb 220.353	15.2899	ppb	0.6611	4.3	124.799
Sb 206.834	-6.1330	ppb	2.0151	32.9	29.3007
Se 196.026	6.7813	ppb	4.5540	67.2	-5.2167
Sn 189.925	13.1831	ppb	0.9249	7.0	-8.9094
Sr 216.596	-2.2014	ppb	0.3084	14.0	216.983
Ti 334.941	214.181	ppb	3.2328	1.5	70797.1
Tl 190.794	4.6862	ppb	0.6249	13.3	-54.3229
V 292.401	248.051	ppb	2.0697	0.8	9470.87
Zn 206.200	6.3344	ppb	0.4568	7.2	20.0791

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Rack 4, Tube 54

Weight: 1

Volume: 1

Dilution: 1

Label	Replicates	Concentration	
Ag 328.068	0.1997u	0.4080	-0.2108u
Al 308.215	109382	109311	109303
As 188.980	37.5901	36.2915	41.9987
B 249.678	-1.9873u	-1.1396u	-2.3862u
Ba 389.178	113.107	112.965	112.041
Be 313.042	0.5181	0.5120	0.5212
Ca 370.602	920.7	920.1	920.0
Cd 226.502	-0.8091	-1.0804	-0.8430
Co 228.615	3.9356	3.5687	2.9439
Cr 267.716	174.332	175.377	175.310
Cu 324.754	48.6206	49.9603	48.4897
Fe 271.441	131048	131465	131082
K 766.491	1067.97	1063.53	1062.27
Mg 279.078	1133.94	1133.89	1136.29
Mn 257.610	64.6632	65.0953	64.9590
Mo 202.032	8.1912	9.4076	8.8779
Na 330.237	-251.013u	-284.653u	-318.389u
Ni 231.604	11.1662	12.7663	11.6311
Pb 220.353	43.2349	43.9067	41.1631
Sb 206.834	-2.4365u	-2.7989u	-5.2014u
Se 196.026	6.2080	7.9748	3.6527
Sn 189.925	17.6785	15.8827	19.2657
Sr 216.596	3.8935	3.8083	4.2314
Ti 334.941	641.078	648.443	644.690

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Label	Replicates Concentration			
Tl 190.794	10.1958u	4.8967u	6.8450u	
V 292.401	378.116	378.522	378.076	
Zn 206.200	48.4452	46.7284	48.1782	

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	0.1323	ppb	0.3149	238.0	0.8469
Al 308.215	109332	ppb	43.5259	0.0	930546
As 188.980	38.6268	ppb	2.9915	7.7	31.5986
B 249.678	-1.8377	ppb	0.6366	34.6	-290.673
Ba 389.178	112.704	ppb	0.5789	0.5	3621.68
Be 313.042	0.5171	ppb	0.0047	0.9	711.074
Ca 370.602	920.3	ppb	0.4051	0.0	2417
Cd 226.502	-0.9108	ppb	0.1478	16.2	791.337
Co 228.615	3.4827	ppb	0.5014	14.4	16.0755
Cr 267.716	175.007	ppb	0.5848	0.3	14250.3
Cu 324.754	49.0235	ppb	0.8139	1.7	3601.92
Fe 271.441	131198	ppb	231.623	0.2	354403
K 766.491	1064.59	ppb	2.9971	0.3	66338.9
Mg 279.078	1134.71	ppb	1.3687	0.1	5988.92
Mn 257.610	64.9058	ppb	0.2209	0.3	22665.8
Mo 202.032	8.8256	ppb	0.6099	6.9	98.7844
Na 330.237	-284.685	ppb	33.6878	11.8	105.054
Ni 231.604	11.8545	ppb	0.8232	6.9	66.5893
Pb 220.353	42.7683	ppb	1.4301	3.3	219.906
Sb 206.834	-3.4789	ppb	1.5026	43.2	34.2607
Se 196.026	5.9452	ppb	2.1730	36.6	-6.2287
Sn 189.925	17.6090	ppb	1.6926	9.6	-1.7346
Sr 216.596	3.9777	ppb	0.2238	5.6	491.891
Ti 334.941	644.737	ppb	3.6826	0.6	213094
Tl 190.794	7.3125	ppb	2.6803	36.7	-56.8200
V 292.401	378.238	ppb	0.2468	0.1	14454.0
Zn 206.200	47.7839	ppb	0.9238	1.9	143.601

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 Weight: 1 Volume: 1 Dilution: 1

Label	Replicates Concentration			
Ag 328.068	9.6141	9.7042	9.7392	
Al 308.215	170.924	175.667	171.009	
As 188.980	18.4358	19.6088	15.4789	
B 249.678	91.3734	93.9062	92.1637	
Ba 389.178	10.5708	11.8773	10.8136	
Be 313.042	3.7732	3.8468	3.8165	
Ca 370.602	524.8	539.8	534.2	
Cd 226.502	5.1164	5.2253	5.1685	
Co 228.615	9.4184	9.7639	9.9703	
Cr 267.716	9.5918	9.7622	9.6623	
Cu 324.754	20.0035	19.9366	19.1982	
Fe 271.441	36.3178	43.8109	42.1702	
K 766.491	1004.14	1030.60	1016.20	
Mg 279.078	465.441	476.265	471.878	
Mn 257.610	10.0418	10.2844	10.1635	
Mo 202.032	9.4348	9.8764	9.6391	
Na 330.237	607.831	753.661	649.901	

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Label	Replicates	Concentration
Ni 231.604	51.5478	53.3504
Pb 220.353	6.6197	10.7788
Sb 206.834	13.8085	20.1850
Se 196.026	14.6163	17.1313
Sn 189.925	51.2173	50.4288
Sr 216.596	10.7924	11.4147
Ti 334.941	11.3222	11.4229
Tl 190.794	26.3526	24.5043
V 292.401	11.6540	11.4680
Zn 206.200	20.6929	21.0992

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	9.6859	ppb	0.0645	0.7	930.346
Al 308.215	172.534	ppb	2.7142	1.6	2160.55
As 188.980	17.8412	ppb	2.1282	11.9	8.5251
B 249.678	92.4811	ppb	1.2959	1.4	1883.96
Ba 389.178	11.0872	ppb	0.6949	6.3	154.905
Be 313.042	3.8122	ppb	0.0370	1.0	9475.63
Ca 370.602	532.9	ppb	7.595	1.4	2917
Cd 226.502	5.1701	ppb	0.0545	1.1	547.545
Co 228.615	9.7175	ppb	0.2788	2.9	120.474
Cr 267.716	9.6721	ppb	0.0856	0.9	825.712
Cu 324.754	19.7127	ppb	0.4469	2.3	1561.97
Fe 271.441	40.7663	ppb	3.9389	9.7	267.188
K 766.491	1016.98	ppb	13.2471	1.3	63395.9
Mg 279.078	471.195	ppb	5.4443	1.2	2584.62
Mn 257.610	10.1632	ppb	0.1213	1.2	3488.45
Mo 202.032	9.6501	ppb	0.2210	2.3	114.946
Na 330.237	670.464	ppb	75.0582	11.2	238.653
Ni 231.604	52.3239	ppb	0.9270	1.8	271.158
Pb 220.353	8.7209	ppb	2.0799	23.8	90.8024
Sb 206.834	16.3507	ppb	3.3789	20.7	67.1814
Se 196.026	16.3077	ppb	1.4650	9.0	2.8109
Sn 189.925	50.2797	ppb	1.0203	2.0	51.2312
Sr 216.596	11.2086	ppb	0.3605	3.2	318.736
Ti 334.941	11.3550	ppb	0.0588	0.5	3758.38
Tl 190.794	27.1092	ppb	3.0544	11.3	-0.8975
V 292.401	11.5734	ppb	0.0955	0.8	411.596
Zn 206.200	20.9871	ppb	0.2571	1.2	64.5587

CCV (Samp) 8/20/2015, 10:04:44 AM Rack 4, Tube 56  
 Weight: 1 Volume: 1 Dilution: 1

Label	Replicates	Concentration
Ag 328.068	493.818	496.087
Al 308.215	4800.14	4870.17
As 188.980	479.731	491.783
B 249.678	463.166	474.846
Ba 389.178	4856.04	4930.80
Be 313.042	479.352	487.190
Ca 370.602	5115	5200
Cd 226.502	483.497	491.170
Co 228.615	478.868	485.222
Cr 267.716	4930.68	4994.58

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Label	Replicates	Concentration	
Cu 324.754	5068.58	5089.05	4828.33
Fe 271.441	4744.98	4819.42	4672.33
K 766.491	9726.99	9878.15	9596.73
Mg 279.078	4755.97	4819.30	4692.62
Mn 257.610	4821.67	4901.95	4757.81
Mo 202.032	488.064	494.631	479.520
Na 330.237	6685.59	6941.31	6689.41
Ni 231.604	2395.51	2427.63	2354.61
Pb 220.353	485.151	489.771	476.978
Sb 206.834	974.090	997.317	963.717
Se 196.026	4721.71	4844.80	4694.05
Sn 189.925	4823.92	4717.04	4601.50
Sr 216.596	2409.06	2441.36	2365.05
Ti 334.941	480.211	487.154	473.507
Tl 190.794	4855.88	4944.22	4817.24
V 292.401	4786.96	4861.94	4733.09
Zn 206.200	2413.31	2455.50	2379.25

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	492.988	ppb	3.5867	0.7	46744.5
Al 308.215	4801.54	ppb	67.9291	1.4	42193.2
As 188.980	483.215	ppb	7.4633	1.5	558.804
B 249.678	466.639	ppb	7.1356	1.5	9122.42
Ba 389.178	4860.08	ppb	68.7842	1.4	160416
Be 313.042	479.801	ppb	7.1748	1.5	1281855
Ca 370.602	5115	ppb	83.91	1.6	28825
Cd 226.502	483.723	ppb	7.3367	1.5	42808.9
Co 228.615	479.331	ppb	5.6734	1.2	9403.29
Cr 267.716	4927.59	ppb	68.5834	1.4	398604
Cu 324.754	4995.32	ppb	144.976	2.9	339759
Fe 271.441	4745.58	ppb	73.5480	1.5	13146.8
K 766.491	9733.95	ppb	140.836	1.4	602254
Mg 279.078	4755.96	ppb	63.3408	1.3	24898.6
Mn 257.610	4827.15	ppb	72.2265	1.5	1636639
Mo 202.032	487.405	ppb	7.5771	1.6	4436.58
Na 330.237	6772.10	ppb	146.550	2.2	743.155
Ni 231.604	2392.58	ppb	36.5949	1.5	12823.5
Pb 220.353	483.967	ppb	6.4780	1.3	1638.28
Sb 206.834	978.375	ppb	17.2046	1.8	1736.49
Se 196.026	4753.52	ppb	80.2504	1.7	3689.76
Sn 189.925	4714.15	ppb	111.237	2.4	7612.15
Sr 216.596	2405.16	ppb	38.3025	1.6	56298.2
Ti 334.941	480.291	ppb	6.8243	1.4	158734
Tl 190.794	4872.45	ppb	65.0889	1.3	9000.80
V 292.401	4793.99	ppb	64.7123	1.3	183190
Zn 206.200	2416.02	ppb	38.1933	1.6	7211.40

CCB (Samp) 8/20/2015, 10:09:23 AM Rack 4, Tube 57  
 Weight: 1 Volume: 1 Dilution: 1

Label	Replicates	Concentration	
Ag 328.068	0.3548	-0.0948u	0.6595
Al 308.215	-18.8176u	-20.6857u	-19.4576u
As 188.980	0.9024	-2.9838u	-2.0917u

<b>Label</b>	<b>Replicates Concentration</b>			
B 249.678	3.4158	2.6888	2.8929	
Ba 389.178	2.2749	2.0055	2.0375	
Be 313.042	0.0437	0.0390	0.0264	
Ca 370.602	9.417	2.953	2.695	
Cd 226.502	0.5137	0.3698	0.4288	
Co 228.615	0.3868	0.2078	0.7300	
Cr 267.716	-0.0161u	-0.2095u	-0.1081u	
Cu 324.754	0.9278	0.0773	0.3267	
Fe 271.441	-3.2469u	-20.9340u	-7.7849u	
K 766.491	-0.3900u	-0.9011u	-0.3970u	
Mg 279.078	-1.7788u	-3.4759u	-1.9603u	
Mn 257.610	0.2490	0.2659	0.2234	
Mo 202.032	0.4542	0.9403	0.1279	
Na 330.237	-134.770u	-189.850u	-132.024u	
Ni 231.604	1.1988	2.1708	1.2335	
Pb 220.353	0.9067	-0.8288u	-1.8842u	
Sb 206.834	-4.2374u	-5.4610u	-6.0609u	
Se 196.026	-2.7724u	0.9576	2.2343	
Sn 189.925	3.4760	2.6286	-0.1312u	
Sr 216.596	0.3194	-0.0948u	0.3466	
Ti 334.941	0.1498	0.0574	0.0441	
Tl 190.794	3.1676	4.7718	-0.1998u	
V 292.401	0.9521	0.2850	0.2538	
Zn 206.200	-0.0759u	-0.4996u	0.2471	

<b>Label</b>	<b>Sol'n Conc.</b>	<b>Units</b>	<b>SD</b>	<b>%RSD</b>	<b>Int. (c/s)</b>
Ag 328.068	0.3065	ppb	0.3794	123.8	40.5952
Al 308.215	-19.6536	ppb	0.9493	4.8	524.228
As 188.980	-1.3910	ppb	2.0357	146.3	-14.2246
B 249.678	2.9992	ppb	0.3750	12.5	153.540
Ba 389.178	2.1060	ppb	0.1472	7.0	-143.148
Be 313.042	0.0364	ppb	0.0090	24.7	-614.271
Ca 370.602	5.022	ppb	3.809	75.8	-7.022
Cd 226.502	0.4375	ppb	0.0723	16.5	129.626
Co 228.615	0.4415	ppb	0.2654	60.1	-62.6838
Cr 267.716	-0.1112	ppb	0.0967	87.0	34.4141
Cu 324.754	0.4439	ppb	0.4372	98.5	251.871
Fe 271.441	-10.6553	ppb	9.1863	86.2	126.542
K 766.491	-0.5627	ppb	0.2931	52.1	494.164
Mg 279.078	-2.4050	ppb	0.9319	38.7	97.1006
Mn 257.610	0.2461	ppb	0.0214	8.7	120.370
Mo 202.032	0.5075	ppb	0.4088	80.6	32.1253
Na 330.237	-152.215	ppb	32.6220	21.4	169.989
Ni 231.604	1.5344	ppb	0.5515	35.9	-1.2579
Pb 220.353	-0.6021	ppb	1.4092	234.1	60.5549
Sb 206.834	-5.2531	ppb	0.9293	17.7	31.3414
Se 196.026	0.1398	ppb	2.6016	1860.4	-9.7698
Sn 189.925	1.9911	ppb	1.8862	94.7	-27.0532
Sr 216.596	0.1904	ppb	0.2474	129.9	63.2251
Ti 334.941	0.0838	ppb	0.0576	68.7	32.7428
Tl 190.794	2.5799	ppb	2.5374	98.4	-46.4322
V 292.401	0.4970	ppb	0.3944	79.4	-9.7536
Zn 206.200	-0.1095	ppb	0.3744	342.1	1.3287

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Cont Calib Verif (CCV)		8/20/2015, 10:42:05 AM		Rack 1, Tube 1		
Weight: 1		Volume: 1		Dilution: 1		
Label	Replicates	Concentration				
Ag 328.068	469.121	469.532	482.292			
Al 308.215	4715.73	4815.70	4714.56			
As 188.980	458.946	468.352	460.625			
B 249.678	465.386	476.582	467.958			
Ba 389.178	4571.87	4678.17	4593.93			
Be 313.042	509.517	520.323	507.157			
Ca 370.602	5452	5564	5446			
Cd 226.502	476.037	486.256	476.270			
Co 228.615	474.459	484.475	474.760			
Cr 267.716	5197.03	5307.01	5189.72			
Cu 324.754	5090.95	4764.31	5104.28			
Fe 271.441	4857.39	4967.01	4864.69			
K 766.491	9646.42	9900.71	9707.61			
Mg 279.078	4791.57	4890.84	4792.97			
Mn 257.610	4999.59	5109.87	5009.31			
Mo 202.032	514.738	526.304	512.255			
Na 330.237	6298.22	6699.29	6642.16			
Ni 231.604	2391.16	2443.77	2392.06			
Pb 220.353	455.225	463.136	456.994			
Sb 206.834	918.592	944.071	917.306			
Se 196.026	4589.47	4695.81	4572.55			
Sn 189.925	4835.61	4806.37	4810.13			
Sr 216.596	2457.30	2512.62	2455.77			
Ti 334.941	503.404	514.722	504.378			
Tl 190.794	4768.39	4890.22	4775.91			
V 292.401	4834.10	4938.32	4838.03			
Zn 206.200	2416.76	2465.29	2416.16			
Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)	QC Value
Ag 328.068	473.648	ppb	7.4882	1.6	44916.5	94.72968
Al 308.215	4748.66	ppb	58.0580	1.2	41753.8	94.97328
As 188.980	462.641	ppb	5.0164	1.1	534.459	92.52827
B 249.678	469.975	ppb	5.8644	1.2	9186.32	93.99508
Ba 389.178	4614.65	ppb	56.1016	1.2	152307	92.29308
Be 313.042	512.333	ppb	7.0203	1.4	1368803	102.46651
Ca 370.602	5487	ppb	66.62	1.2	30888	109.74564
Cd 226.502	479.521	ppb	5.8340	1.2	42438.9	95.90425
Co 228.615	477.898	ppb	5.6980	1.2	9375.41	95.57961
Cr 267.716	5231.26	ppb	65.7058	1.3	423168	104.62511
Cu 324.754	4986.51	ppb	192.548	3.9	339159	99.73029
Fe 271.441	4896.36	ppb	61.2882	1.3	13557.0	97.92724
K 766.491	9751.58	ppb	132.729	1.4	603344	97.51579
Mg 279.078	4825.13	ppb	56.9102	1.2	25255.4	96.50252
Mn 257.610	5039.59	ppb	61.0565	1.2	1708664	100.79181
Mo 202.032	517.766	ppb	7.4981	1.4	4711.56	103.55318
Na 330.237	6546.55	ppb	216.956	3.3	724.292	87.28740Q
Ni 231.604	2408.99	ppb	30.1180	1.3	12911.5	96.35969
Pb 220.353	458.451	ppb	4.1520	0.9	1555.56	91.69029
Sb 206.834	926.656	ppb	15.0951	1.6	1652.39	92.66563
Se 196.026	4619.28	ppb	66.8142	1.4	3585.40	92.38552
Sn 189.925	4817.37	ppb	15.9117	0.3	7779.48	96.34740
Sr 216.596	2475.23	ppb	32.3909	1.3	57939.4	99.00925

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Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)	QC Value
Ti 334.941	507.501	ppb	6.2721	1.2	167726	101.50024
Tl 190.794	4811.51	ppb	68.2713	1.4	8888.18	96.23012
V 292.401	4870.15	ppb	59.0676	1.2	186101	97.40301
Zn 206.200	2432.74	ppb	28.1931	1.2	7260.73	97.30962

Cont Calib Blank (CCB)

8/20/2015, 10:45:49 AM

Rack 1, Tube 2

Weight: 1

Volume: 1

Dilution: 1

Label	Replicates	Concentration				
Ag 328.068	-0.3599u	0.2566	-0.3862u			
Al 308.215	-15.6498u	-14.7262u	-16.9926u			
As 188.980	0.8510	-1.0039u	-1.3721u			
B 249.678	6.4055	5.2063	4.2292			
Ba 389.178	1.7166	2.2081	1.2394			
Be 313.042	0.0457	0.0384	0.0411			
Ca 370.602	6.865	4.000	9.252			
Cd 226.502	0.4117	0.3904	0.5092			
Co 228.615	0.9297	1.0486	0.7606			
Cr 267.716	0.4236	-0.0253u	0.1145			
Cu 324.754	0.8022	1.1686	0.6434			
Fe 271.441	-4.9493u	-0.8688u	-5.6648u			
K 766.491	0.1402	0.4539	0.0329			
Mg 279.078	-2.5513u	-4.1910u	-4.7530u			
Mn 257.610	0.3836	0.4381	0.4315			
Mo 202.032	0.7146	-0.0504u	0.4492			
Na 330.237	-260.216u	112.793	-191.041u			
Ni 231.604	2.3615	0.3869	2.9077			
Pb 220.353	1.5356	-2.9056u	-2.0767u			
Sb 206.834	-4.7221u	-8.8547u	-0.8688u			
Se 196.026	0.0675	4.3118	6.0084			
Sn 189.925	3.2724	0.7797	-1.1336u			
Sr 216.596	0.0607	0.0449	0.1346			
Ti 334.941	0.1126	0.0698	0.0718			
Tl 190.794	2.4467	3.8066	2.1772			
V 292.401	0.4168	0.7531	0.4157			
Zn 206.200	-0.2868u	0.1052	-0.4877u			

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)	QC Value
Ag 328.068	-0.1631	ppb	0.3638	223.0	-3.9740	-0.16315
Al 308.215	-15.7895	ppb	1.1396	7.2	557.083	-15.78955
As 188.980	-0.5084	ppb	1.1915	234.4	-13.1802	-0.50836
B 249.678	5.2803	ppb	1.0900	20.6	197.599	5.28034
Ba 389.178	1.7214	ppb	0.4843	28.1	-155.850	1.72136
Be 313.042	0.0417	ppb	0.0037	8.8	-599.902	0.04175
Ca 370.602	6.706	ppb	2.630	39.2	2.111	6.70565
Cd 226.502	0.4371	ppb	0.0634	14.5	129.641	0.43710
Co 228.615	0.9130	ppb	0.1447	15.9	-53.3608	0.91298
Cr 267.716	0.1709	ppb	0.2297	134.4	57.2434	0.17095
Cu 324.754	0.8714	ppb	0.2694	30.9	280.930	0.87142
Fe 271.441	-3.8276	ppb	2.5873	67.6	145.064	-3.82763
K 766.491	0.2090	ppb	0.2187	104.7	541.868	0.20899
Mg 279.078	-3.8318	ppb	1.1439	29.9	89.5953	-3.83178
Mn 257.610	0.4177	ppb	0.0297	7.1	178.593	0.41770
Mo 202.032	0.3711	ppb	0.3884	104.7	30.8894	0.37112

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Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)	QC Value
Na 330.237	-112.821	ppb	198.426	175.9	173.276	-112.82134
Ni 231.604	1.8854	ppb	1.3261	70.3	0.6235	1.88537
Pb 220.353	-1.1489	ppb	2.3615	205.5	58.7802	-1.14892
Sb 206.834	-4.8152	ppb	3.9938	82.9	32.0737	-4.81520
Se 196.026	3.4626	ppb	3.0602	88.4	-7.1850	3.46257
Sn 189.925	0.9728	ppb	2.2093	227.1	-28.7040	0.97281
Sr 216.596	0.0801	ppb	0.0478	59.7	60.6497	0.08008
Ti 334.941	0.0847	ppb	0.0242	28.5	33.0576	0.08474
Tl 190.794	2.8101	ppb	0.8734	31.1	-46.0037	2.81014
V 292.401	0.5285	ppb	0.1945	36.8	-8.5329	0.52854
Zn 206.200	-0.2231	ppb	0.3015	135.2	0.9855	-0.22308

680-115692-a-41-g^10 (Samp)    8/20/2015, 10:49:33 AM    Rack 1, Tube 3  
 Weight: 1    Volume: 1    Dilution: 1

Label	Replicates	Concentration				
Ag 328.068	0.1460	0.8887	0.0682			
Al 308.215	10787.2	10460.8	10154.8			
As 188.980	24.3265	24.3547	25.1527			
B 249.678	0.0902u	0.8245u	1.3021u			
Ba 389.178	133.755	130.097	127.236			
Be 313.042	1.4113	1.3744	1.3447			
Ca 370.602	5903	5728	5581			
Cd 226.502	-0.1799	-0.0590	-0.3790			
Co 228.615	12.7361	11.9133	12.1594			
Cr 267.716	46.6234	45.3722	43.8759			
Cu 324.754	19.6440	19.1129	17.5580			
Fe 271.441	58881.0	57149.3	55575.1			
K 766.491	439.875	427.316	415.713			
Mg 279.078	1071.52	1043.18	1007.47			
Mn 257.610	1439.59	1395.74	1356.72			
Mo 202.032	3.5087	3.4921	3.2688			
Na 330.237	-225.979u	-248.280u	-116.251u			
Ni 231.604	15.3484	13.4275	12.2798			
Pb 220.353	33.3435	30.0201	29.9498			
Sb 206.834	-10.6256u	-10.0040u	-7.1963u			
Se 196.026	-4.6412u	13.8811	1.3818			
Sn 189.925	5.7669	5.3893	7.0355			
Sr 216.596	26.4498	25.4363	24.9715			
Ti 334.941	205.050	199.091	195.132			
Tl 190.794	4.2586	5.2846	4.7680			
V 292.401	85.6675	82.7132	81.0290			
Zn 206.200	63.4713	59.4617	58.9882			

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	0.3676	ppb	0.4529	123.2	42.8473
Al 308.215	10467.6	ppb	316.272	3.0	89729.2
As 188.980	24.6113	ppb	0.4691	1.9	15.8770
B 249.678	0.7389	ppb	0.6105	82.6	-43.0641
Ba 389.178	130.363	ppb	3.2676	2.5	4144.00
Be 313.042	1.3768	ppb	0.0334	2.4	2976.20
Ca 370.602	5737	ppb	160.9	2.8	30496
Cd 226.502	-0.2060	ppb	0.1616	78.4	413.534
Co 228.615	12.2696	ppb	0.4223	3.4	176.099

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<b>Label</b>	<b>Sol'n Conc.</b>	<b>Units</b>	<b>SD</b>	<b>%RSD</b>	<b>Int. (c/s)</b>
Cr 267.716	45.2905	ppb	1.3756	3.0	3739.37
Cu 324.754	18.7716	ppb	1.0840	5.8	1519.63
Fe 271.441	57201.8	ppb	1653.61	2.9	154606
K 766.491	427.635	ppb	12.0843	2.8	26964.1
Mg 279.078	1040.72	ppb	32.0991	3.1	5513.67
Mn 257.610	1397.35	ppb	41.4589	3.0	474054
Mo 202.032	3.4232	ppb	0.1340	3.9	54.8666
Na 330.237	-196.837	ppb	70.6742	35.9	142.734
Ni 231.604	13.6852	ppb	1.5504	11.3	69.2945
Pb 220.353	31.1044	ppb	1.9394	6.2	173.291
Sb 206.834	-9.2753	ppb	1.8271	19.7	24.1617
Se 196.026	3.5406	ppb	9.4480	266.8	-7.0160
Sn 189.925	6.0639	ppb	0.8624	14.2	-20.4508
Sr 216.596	25.6192	ppb	0.7559	3.0	806.872
Ti 334.941	199.758	ppb	4.9929	2.5	66028.3
Tl 190.794	4.7704	ppb	0.5130	10.8	-49.7182
V 292.401	83.1366	ppb	2.3481	2.8	3154.62
Zn 206.200	60.6404	ppb	2.4630	4.1	183.264

**680-115692-a-41-gSD (Samp)      8/20/2015, 10:53:17 AM      Rack 1, Tube 4**  
**Weight: 1      Volume: 1      Dilution: 1**

<b>Label</b>	<b>Replicates</b>	<b>Concentration</b>
Ag 328.068	0.2025	0.2320
Al 308.215	2362.73	2303.26
As 188.980	4.0527	0.3639
B 249.678	0.4720u	0.4863u
Ba 389.178	30.9600	28.7203
Be 313.042	0.2983	0.2999
Ca 370.602	1296	1263
Cd 226.502	0.2836	0.2329
Co 228.615	3.0571	3.3681
Cr 267.716	10.1555	9.9566
Cu 324.754	3.8317	3.9838
Fe 271.441	12893.6	12554.9
K 766.491	93.8705	91.8267
Mg 279.078	232.626	228.098
Mn 257.610	310.393	302.381
Mo 202.032	1.2438	-0.1764u
Na 330.237	-271.488u	-219.586u
Ni 231.604	4.4611	3.5878
Pb 220.353	6.8891	4.1806
Sb 206.834	-10.7588u	-8.4687u
Se 196.026	0.3489	-2.8383u
Sn 189.925	1.4148	1.0831
Sr 216.596	5.9479	5.7267
Ti 334.941	45.2884	44.0022
Tl 190.794	-0.4247u	2.1667
V 292.401	19.2266	18.8270
Zn 206.200	15.0673	13.6260

<b>Label</b>	<b>Sol'n Conc.</b>	<b>Units</b>	<b>SD</b>	<b>%RSD</b>	<b>Int. (c/s)</b>
Ag 328.068	0.0826	ppb	0.2336	282.7	18.5386
Al 308.215	2314.02	ppb	44.3216	1.9	20374.5

E08192015.wvq. All Data Report 8/20/2015, 3:03:52 PM

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
As 188.980	3.1267	ppb	2.4357	77.9	-9.0254
B 249.678	0.5284	ppb	0.0856	16.2	71.9921
Ba 389.178	29.7913	ppb	1.1230	3.8	782.501
Be 313.042	0.2964	ppb	0.0048	1.6	82.4805
Ca 370.602	1267	ppb	26.59	2.1	6708
Cd 226.502	0.2344	ppb	0.0485	20.7	186.868
Co 228.615	3.0286	ppb	0.3545	11.7	-10.4043
Cr 267.716	9.8784	ppb	0.3233	3.3	849.587
Cu 324.754	4.1457	ppb	0.4191	10.1	508.312
Fe 271.441	12615.1	ppb	253.828	2.0	34217.4
K 766.491	92.1618	ppb	1.5682	1.7	6226.13
Mg 279.078	228.448	ppb	4.0140	1.8	1296.05
Mn 257.610	303.783	ppb	6.0321	2.0	103089
Mo 202.032	0.3946	ppb	0.7499	190.0	30.2905
Na 330.237	-237.301	ppb	29.6131	12.5	157.691
Ni 231.604	3.9094	ppb	0.4799	12.3	12.6679
Pb 220.353	5.7090	ppb	1.3874	24.3	83.2041
Sb 206.834	-7.7270	ppb	3.4628	44.8	27.1360
Se 196.026	1.3052	ppb	4.6953	359.7	-8.8411
Sn 189.925	1.4938	ppb	0.4554	30.5	-27.8594
Sr 216.596	5.6742	ppb	0.3033	5.3	224.349
Ti 334.941	44.2693	ppb	0.9153	2.1	14636.8
Tl 190.794	0.0008	ppb	1.9876	241466.0	-52.8375
V 292.401	18.9612	ppb	0.2298	1.2	697.435
Zn 206.200	14.2421	ppb	0.7431	5.2	44.3152

680-115692-a-41-gPDS (Samp) 8/20/2015, 10:57:02 AM

Rack 1, Tube 5

**Weight:** 1

Volume: 1

Dilution: 1

Label	Replicates	Concentration	
Ag 328.068	55.4393	56.4628	53.7992
Al 308.215	10907.1	10936.7	10860.1
As 188.980	114.249	119.526	113.508
B 249.678	182.316	184.857	183.970
Ba 389.178	215.385	214.994	215.134
Be 313.042	96.9011	96.8362	96.5905
Ca 370.602	15123	15129	15152
Cd 226.502	92.0089	92.5078	91.9256
Co 228.615	105.895	105.733	106.636
Cr 267.716	140.269	140.825	140.234
Cu 324.754	117.053	119.311	111.967
Fe 271.441	63392.4	63593.7	63206.5
K 766.491	10020.3	10094.3	9992.00
Mg 279.078	10144.2	10191.0	10142.9
Mn 257.610	2232.48	2246.66	2233.22
Mo 202.032	97.2172	97.5844	96.4789
Na 330.237	8621.40	8458.33	8547.38
Ni 231.604	107.935	107.626	105.850
Pb 220.353	121.025	122.946	124.275
Sb 206.834	79.9717	85.0027	84.6150
Se 196.026	101.780	99.3575	88.0472
Sn 189.925	98.6505	99.0986	97.3931
Sr 216.596	116.208	116.628	116.533
Ti 334.941	284.215	284.729	283.284

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<b>Label</b>	<b>Replicates</b>	<b>Concentration</b>
Tl 190.794	20.4917	24.8173
V 292.401	175.272	176.282
Zn 206.200	151.560	152.277
		21.3782
		174.875
		150.885

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	55.2338	ppb	1.3437	2.4	5249.94
Al 308.215	10901.3	ppb	38.6271	0.4	93434.9
As 188.980	115.761	ppb	3.2817	2.8	123.595
B 249.678	183.714	ppb	1.2895	0.7	3479.78
Ba 389.178	215.171	ppb	0.1979	0.1	6974.22
Be 313.042	96.7759	ppb	0.1638	0.2	257924
Ca 370.602	15135	ppb	14.89	0.1	82356
Cd 226.502	92.1474	ppb	0.3148	0.3	8601.31
Co 228.615	106.088	ppb	0.4815	0.5	2027.68
Cr 267.716	140.443	ppb	0.3313	0.2	11442.7
Cu 324.754	116.110	ppb	3.7618	3.2	8141.45
Fe 271.441	63397.5	ppb	193.658	0.3	171352
K 766.491	10035.5	ppb	52.8224	0.5	620896
Mg 279.078	10159.4	ppb	27.4413	0.3	53384.5
Mn 257.610	2237.46	ppb	7.9813	0.4	759007
Mo 202.032	97.0935	ppb	0.5630	0.6	903.079
Na 330.237	8542.37	ppb	81.6508	1.0	869.966
Ni 231.604	107.137	ppb	1.1256	1.1	570.789
Pb 220.353	122.748	ppb	1.6338	1.3	471.965
Sb 206.834	83.1965	ppb	2.7994	3.4	177.357
Se 196.026	96.3947	ppb	7.3299	7.6	65.4963
Sn 189.925	98.3807	ppb	0.8841	0.9	129.216
Sr 216.596	116.456	ppb	0.2201	0.2	2945.61
Ti 334.941	284.076	ppb	0.7323	0.3	93910.9
Tl 190.794	22.2291	ppb	2.2849	10.3	-17.1046
V 292.401	175.476	ppb	0.7256	0.4	6661.60
Zn 206.200	151.574	ppb	0.6960	0.5	455.369

680-115692-a-41-h ms (Samp) 8/20/2015, 11:00:47 AM

Rack 1, Tube 6

**Weight:** 1

Volume: 1

### Dilution: 1

Label	Replicates	Concentration	
Ag 328.068	4.6106	4.7530	4.4553
Al 308.215	9879.04	9875.63	9751.63
As 188.980	33.1161	31.6859	29.2248
B 249.678	19.3735	19.7301	18.6450
Ba 389.178	149.193	147.554	147.514
Be 313.042	6.1466	6.1551	6.0643
Ca 370.602	6866	6886	6762
Cd 226.502	4.9926	5.0131	4.7925
Co 228.615	14.8819	14.7460	14.5556
Cr 267.716	53.7238	53.8402	53.0067
Cu 324.754	30.3320	29.3561	29.4023
Fe 271.441	46628.6	46625.2	45986.2
K 766.491	944.851	941.461	936.318
Mg 279.078	1527.19	1525.40	1504.95
Mn 257.610	1172.10	1172.87	1152.77
Mo 202.032	11.4638	11.7792	11.6861
Na 330.237	340.831	208.865u	188.248u

E08192015.wvq. All Data Report 8/20/2015, 3:03:52 PM

Label	Replicates Concentration		
Ni 231.604	23.3957	22.6932	22.5627
Pb 220.353	76.3485	75.0378	75.4270
Sb 206.834	0.1190u	0.6261	-5.7736u
Se 196.026	8.7914	11.7907	17.4125
Sn 189.925	20.6190	22.0464	22.7610
Sr 216.596	38.9399	38.5679	37.4820
Ti 334.941	233.491	233.568	229.978
Tl 190.794	8.5919	5.4922	5.4835
V 292.401	76.6886	76.5986	75.4638
Zn 206.200	59.5430	59.9285	58.0288

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	4.6063	ppb	0.1489	3.2	445.297
Al 308.215	9835.43	ppb	72.5936	0.7	84350.9
As 188.980	31.3423	ppb	1.9683	6.3	23.9609
B 249.678	19.2495	ppb	0.5531	2.9	343.763
Ba 389.178	148.087	ppb	0.9581	0.6	4722.15
Be 313.042	6.1220	ppb	0.0501	0.8	15656.3
Ca 370.602	6838	ppb	66.40	1.0	36854
Cd 226.502	4.9328	ppb	0.1219	2.5	802.569
Co 228.615	14.7279	ppb	0.1639	1.1	225.816
Cr 267.716	53.5236	ppb	0.4514	0.8	4399.55
Cu 324.754	29.6968	ppb	0.5506	1.9	2258.42
Fe 271.441	46413.4	ppb	369.894	0.8	125477
K 766.491	940.877	ppb	4.2965	0.5	58691.3
Mg 279.078	1519.18	ppb	12.3567	0.8	8036.97
Mn 257.610	1165.91	ppb	11.3871	1.0	395545
Mo 202.032	11.6430	ppb	0.1621	1.4	130.026
Na 330.237	245.981	ppb	82.7867	33.7	184.133
Ni 231.604	22.8839	ppb	0.4480	2.0	117.607
Pb 220.353	75.6044	ppb	0.6731	0.9	315.867
Sb 206.834	-1.6762	ppb	3.5575	212.2	36.9803
Se 196.026	12.6649	ppb	4.3766	34.6	0.0739
Sn 189.925	21.8088	ppb	1.0906	5.0	5.0747
Sr 216.596	38.3299	ppb	0.7575	2.0	1076.16
Ti 334.941	232.346	ppb	2.0508	0.9	76797.0
Tl 190.794	6.5225	ppb	1.7921	27.5	-45.0310
V 292.401	76.2503	ppb	0.6826	0.9	2888.36
Zn 206.200	59.1667	ppb	1.0042	1.7	178.773

680-115692-a-41-i ms (Samp)    8/20/2015, 11:04:33 AM    Rack 1, Tube 7  
 Weight: 1    Volume: 1    Dilution: 1

Label	Replicates Concentration		
Ag 328.068	4.2604	4.7890	4.1852
Al 308.215	8922.31	8567.00	8554.01
As 188.980	24.6810	23.0882	25.4043
B 249.678	19.2461	18.1201	18.0729
Ba 389.178	161.494	155.371	156.026
Be 313.042	6.1591	5.9422	5.9176
Ca 370.602	6447	6201	6180
Cd 226.502	5.4328	5.1670	5.1311
Co 228.615	13.7727	13.1046	13.5028
Cr 267.716	36.0865	34.8446	34.5608

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Label	Replicates	Concentration			
Cu 324.754	30.6861	30.5098	30.2135		
Fe 271.441	32986.5	31697.9	31626.2		
K 766.491	955.444	919.555	920.312		
Mg 279.078	1552.58	1489.21	1493.87		
Mn 257.610	1449.90	1392.70	1389.15		
Mo 202.032	12.3208	11.4792	12.3605		
Na 330.237	336.498	488.614	271.239		
Ni 231.604	20.7758	21.4459	21.3171		
Pb 220.353	86.1956	81.6403	85.4320		
Sb 206.834	-5.7805u	-0.6436u	-6.0546u		
Se 196.026	11.0206	7.1244	10.6438		
Sn 189.925	24.7804	25.7741	25.4079		
Sr 216.596	41.2317	38.8988	39.4690		
Ti 334.941	208.393	201.077	201.767		
Tl 190.794	7.2046	7.0254	6.8905		
V 292.401	66.6873	64.0253	63.9589		
Zn 206.200	61.2782	59.4115	58.4954		

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	4.4115	ppb	0.3290	7.5	430.872
Al 308.215	8681.10	ppb	208.989	2.4	74530.9
As 188.980	24.3912	ppb	1.1849	4.9	15.9017
B 249.678	18.4797	ppb	0.6641	3.6	367.029
Ba 389.178	157.630	ppb	3.3618	2.1	5025.86
Be 313.042	6.0063	ppb	0.1329	2.2	15345.8
Ca 370.602	6276	ppb	148.7	2.4	34086
Cd 226.502	5.2437	ppb	0.1648	3.1	744.746
Co 228.615	13.4601	ppb	0.3361	2.5	200.179
Cr 267.716	35.1639	ppb	0.8114	2.3	2910.60
Cu 324.754	30.4698	ppb	0.2388	0.8	2305.42
Fe 271.441	32103.5	ppb	765.535	2.4	86839.5
K 766.491	931.770	ppb	20.5056	2.2	58128.3
Mg 279.078	1511.89	ppb	35.3182	2.3	7989.67
Mn 257.610	1410.59	ppb	34.0957	2.4	478429
Mo 202.032	12.0535	ppb	0.4978	4.1	134.651
Na 330.237	365.450	ppb	111.542	30.5	199.971
Ni 231.604	21.1796	ppb	0.3556	1.7	107.115
Pb 220.353	84.4226	ppb	2.4397	2.9	342.247
Sb 206.834	-4.1595	ppb	3.0480	73.3	32.8554
Se 196.026	9.5963	ppb	2.1490	22.4	-2.1086
Sn 189.925	25.3208	ppb	0.5026	2.0	10.7683
Sr 216.596	39.8665	ppb	1.2162	3.1	1075.16
Ti 334.941	203.746	ppb	4.0395	2.0	67343.7
Tl 190.794	7.0402	ppb	0.1576	2.2	-41.6879
V 292.401	64.8905	ppb	1.5564	2.4	2453.90
Zn 206.200	59.7284	ppb	1.4182	2.4	180.610

680-115692-a-43-c^10 (Samp)    8/20/2015, 11:08:19 AM    Rack 1, Tube 8  
 Weight: 1    Volume: 1    Dilution: 1

Label	Replicates	Concentration			
Ag 328.068	-0.6894u	-0.3229u	-0.2735u		
Al 308.215	14132.5	13823.9	13564.7		
As 188.980	30.1477	30.3894	25.7763		

Label	Replicates	Concentration				
B 249.678	-0.0949u	0.2363u	0.2836u			
Ba 389.178	737.365	722.903	707.588			
Be 313.042	2.3565	2.3000	2.2492			
Ca 370.602	13753	13454	13258			
Cd 226.502	-0.1378	-0.3966	-0.3709			
Co 228.615	24.3700	23.4100	23.1494			
Cr 267.716	61.0927	59.8876	58.9371			
Cu 324.754	9.4353	10.2287	9.5065			
Fe 271.441	82903.0	81075.6	79529.5			
K 766.491	550.785	537.101	527.152			
Mg 279.078	3200.28	3134.55	3076.68			
Mn 257.610	4058.97	3972.99	3903.08			
Mo 202.032	1.4962	2.1255	0.5453u			
Na 330.237	-422.252u	-163.838u	-348.662u			
Ni 231.604	11.1528	11.7002	11.0680			
Pb 220.353	56.1015	55.4382	52.9841			
Sb 206.834	-6.0882u	-9.5131u	-6.5812u			
Se 196.026	3.9825	1.7982	-1.8410u			
Sn 189.925	5.2873	4.5868	2.6635			
Sr 216.596	28.4237	27.5785	27.3158			
Ti 334.941	391.405	383.242	376.157			
Tl 190.794	5.6578	7.6451	10.9935			
V 292.401	131.691	129.329	126.429			
Zn 206.200	72.9361	70.9098	68.8330			

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.4286	ppb	0.2272	53.0	-22.3396
Al 308.215	13840.4	ppb	284.255	2.1	118421
As 188.980	28.7711	ppb	2.5964	9.0	20.5217
B 249.678	0.1417	ppb	0.2062	145.6	-118.834
Ba 389.178	722.618	ppb	14.8905	2.1	23738.9
Be 313.042	2.3019	ppb	0.0537	2.3	5454.85
Ca 370.602	13488	ppb	249.5	1.8	73001
Cd 226.502	-0.3018	ppb	0.1426	47.2	547.758
Co 228.615	23.6431	ppb	0.6429	2.7	406.794
Cr 267.716	59.9725	ppb	1.0803	1.8	4955.27
Cu 324.754	9.7235	ppb	0.4389	4.5	913.437
Fe 271.441	81169.4	ppb	1688.70	2.1	219322
K 766.491	538.346	ppb	11.8656	2.2	33808.0
Mg 279.078	3137.17	ppb	61.8441	2.0	16421.5
Mn 257.610	3978.35	ppb	78.0866	2.0	1349211
Mo 202.032	1.3890	ppb	0.7956	57.3	34.8743
Na 330.237	-311.584	ppb	133.137	42.7	123.280
Ni 231.604	11.3070	ppb	0.3432	3.0	58.7635
Pb 220.353	54.8413	ppb	1.6422	3.0	255.253
Sb 206.834	-7.3942	ppb	1.8515	25.0	27.0599
Se 196.026	1.3133	ppb	2.9419	224.0	-7.9251
Sn 189.925	4.1792	ppb	1.3586	32.5	-23.5063
Sr 216.596	27.7727	ppb	0.5789	2.1	919.791
Ti 334.941	383.601	ppb	7.6305	2.0	126790
Tl 190.794	8.0988	ppb	2.6966	33.3	-44.8340
V 292.401	129.150	ppb	2.6358	2.0	4918.94
Zn 206.200	70.8930	ppb	2.0516	2.9	213.908

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680-115692-a-44-c^10 (Samp) 8/20/2015, 11:12:04 AM

Rack 1, Tube 9

Weight: 1 Volume: 1

Dilution: 1

Label	Replicates	Concentration			
Ag 328.068	0.0471	-0.0884u	0.0913		
Al 308.215	13718.3	13547.5	13312.9		
As 188.980	21.9264	15.8097	18.0965		
B 249.678	1.6123u	1.8599u	2.3253u		
Ba 389.178	107.520	105.511	104.318		
Be 313.042	1.1863	1.1764	1.1756		
Ca 370.602	12652	12506	12310		
Cd 226.502	-0.1278	-0.2293	-0.3188		
Co 228.615	8.8522	8.5867	8.6334		
Cr 267.716	55.4694	54.6932	54.0283		
Cu 324.754	21.8390	21.9419	21.7128		
Fe 271.441	47277.6	46719.0	45863.1		
K 766.491	562.037	554.275	542.411		
Mg 279.078	1406.13	1387.33	1365.28		
Mn 257.610	1567.77	1549.70	1523.97		
Mo 202.032	1.4368	2.2850	2.5544		
Na 330.237	-165.077u	6.1026u	-169.480u		
Ni 231.604	13.9929	13.9056	14.2905		
Pb 220.353	22.9319	22.0604	24.0073		
Sb 206.834	-5.4939u	-8.7966u	-6.0123u		
Se 196.026	3.6319	0.8618	9.1775		
Sn 189.925	4.0998	8.1757	5.8188		
Sr 216.596	34.0787	34.5330	33.6876		
Ti 334.941	498.530	493.361	485.270		
Tl 190.794	3.5031	0.5047u	1.1944u		
V 292.401	82.6128	80.9017	80.0900		
Zn 206.200	47.3327	46.3641	45.6961		

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	0.0167	ppb	0.0937	561.3	12.0939
Al 308.215	13526.2	ppb	203.489	1.5	115738
As 188.980	18.6109	ppb	3.0906	16.6	8.9006
B 249.678	1.9325	ppb	0.3620	18.7	8.2693
Ba 389.178	105.783	ppb	1.6181	1.5	3324.05
Be 313.042	1.1794	ppb	0.0060	0.5	2452.59
Ca 370.602	12490	ppb	171.7	1.4	68298
Cd 226.502	-0.2253	ppb	0.0956	42.4	347.388
Co 228.615	8.6908	ppb	0.1417	1.6	116.518
Cr 267.716	54.7303	ppb	0.7213	1.3	4500.91
Cu 324.754	21.8312	ppb	0.1148	0.5	1723.37
Fe 271.441	46619.9	ppb	712.413	1.5	126034
K 766.491	552.908	ppb	9.8844	1.8	34708.1
Mg 279.078	1386.25	ppb	20.4451	1.5	7320.70
Mn 257.610	1547.15	ppb	22.0115	1.4	524792
Mo 202.032	2.0921	ppb	0.5832	27.9	43.4662
Na 330.237	-109.485	ppb	100.126	91.5	154.357
Ni 231.604	14.0630	ppb	0.2018	1.4	70.3341
Pb 220.353	22.9998	ppb	0.9752	4.2	144.864
Sb 206.834	-6.7676	ppb	1.7762	26.2	28.7199
Se 196.026	4.5571	ppb	4.2344	92.9	-6.0862
Sn 189.925	6.0314	ppb	2.0462	33.9	-20.5034
Sr 216.596	34.0998	ppb	0.4231	1.2	978.148

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<b>Label</b>	<b>Sol'n Conc.</b>	<b>Units</b>	<b>SD</b>	<b>%RSD</b>	<b>Int. (c/s)</b>
Ti 334.941	492.387	ppb	6.6831	1.4	162731
Tl 190.794	1.7341	ppb	1.5703	90.6	-53.6000
V 292.401	81.2015	ppb	1.2878	1.6	3083.24
Zn 206.200	46.4643	ppb	0.8229	1.8	140.643

680-115692-a-45-c^10 (Samp) 8/20/2015, 11:15:51 AM

**Weight: 1** **Volume: 1**

Rack 1, Tube 10

**Dilution: 1**

## **Label**      **Replicates** **Concentration**

Ag	328.068	-0.3925u	-0.0825u	-0.5586u
Al	308.215	14911.3	14949.8	14773.0
As	188.980	20.1181	16.1046	21.5346
B	249.678	0.9295u	0.8909u	0.4392u
Ba	389.178	134.153	134.020	132.788
Be	313.042	0.9283	0.9201	0.9226
Ca	370.602	9748	9794	9685
Cd	226.502	0.0459	0.0986	-0.1560
Co	228.615	9.3011	9.4110	8.7130
Cr	267.716	56.5704	56.9403	56.0614
Cu	324.754	19.7702	21.1481	19.7035
Fe	271.441	41951.7	42017.9	41580.3
K	766.491	508.359	509.259	503.838
Mg	279.078	1921.08	1928.33	1899.59
Mn	257.610	1767.84	1774.11	1753.51
Mo	202.032	2.1649	1.5831	2.9750
Na	330.237	-166.442u	-136.447u	-73.7141u
Ni	231.604	12.1578	11.6888	11.2280
Pb	220.353	27.8433	27.1478	32.0664
Sb	206.834	-7.3920u	-10.5201u	-8.1193u
Se	196.026	5.7875	-0.1475	3.5020
Sn	189.925	4.1823	6.2690	5.1036
Sr	216.596	26.5460	26.8686	26.5331
Ti	334.941	329.386	330.174	326.306
Tl	190.794	7.2465	3.8219	3.2979
V	292.401	73.2522	73.7400	72.7868
Zn	206.200	49.2683	50.0349	48.7220

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.3445	ppb	0.2416	70.1	-19.7396
Al 308.215	14878.0	ppb	93.0063	0.6	127233
As 188.980	19.2524	ppb	2.8166	14.6	9.7148
B 249.678	0.7532	ppb	0.2726	36.2	-1.7855
Ba 389.178	133.654	ppb	0.7530	0.6	4242.37
Be 313.042	0.9237	ppb	0.0042	0.5	1767.30
Ca 370.602	9742	ppb	54.72	0.6	53113
Cd 226.502	-0.0038	ppb	0.1344	3501.2	339.225
Co 228.615	9.1417	ppb	0.3753	4.1	119.670
Cr 267.716	56.5240	ppb	0.4413	0.8	4645.34
Cu 324.754	20.2073	ppb	0.8154	4.0	1611.19
Fe 271.441	41850.0	ppb	235.877	0.6	113155
K 766.491	507.152	ppb	2.9050	0.6	31879.6
Mg 279.078	1916.33	ppb	14.9451	0.8	10095.8
Mn 257.610	1765.15	ppb	10.5607	0.6	598686
Mo 202.032	2.2410	ppb	0.6991	31.2	45.1237

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Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Na 330.237	-125.535	ppb	47.3175	37.7	154.978
Ni 231.604	11.6915	ppb	0.4649	4.0	57.1626
Pb 220.353	29.0192	ppb	2.6618	9.2	163.837
Sb 206.834	-8.6772	ppb	1.6370	18.9	25.6796
Se 196.026	3.0473	ppb	2.9935	98.2	-7.1394
Sn 189.925	5.1850	ppb	1.0457	20.2	-21.8756
Sr 216.596	26.6493	ppb	0.1901	0.7	791.320
Ti 334.941	328.622	ppb	2.0439	0.6	108613
Tl 190.794	4.7888	ppb	2.1445	44.8	-47.0337
V 292.401	73.2597	ppb	0.4767	0.7	2777.12
Zn 206.200	49.3418	ppb	0.6595	1.3	149.264

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Weight: 1      Volume: 1

Rack 1, Tube 11

Dilution: 1

Label	Replicates	Concentration				
Ag 328.068	-1.4731u	-1.4459u	-0.5910u			
Al 308.215	11484.6	11516.5	11385.8			
As 188.980	35.4099	27.3102	32.5172			
B 249.678	-2.7152u	-2.3501u	-1.5367u			
Ba 389.178	716.187	717.569	707.742			
Be 313.042	2.4431	2.4419	2.4171			
Ca 370.602	2584	2591	2568			
Cd 226.502	-0.3514	-0.3262	-0.3383			
Co 228.615	37.5602	38.1392	37.4425			
Cr 267.716	40.1837	40.4434	40.2468			
Cu 324.754	8.1754	8.7203	8.3935			
Fe 271.441	72374.6	72630.6	71863.9			
K 766.491	175.718	177.037	175.051			
Mg 279.078	1104.94	1108.83	1101.50			
Mn 257.610	5567.72	5581.40	5521.28			
Mo 202.032	0.6004	0.2300u	0.9758			
Na 330.237	-341.462u	-50.9856u	-223.633u			
Ni 231.604	10.7475	10.2005	11.9095			
Pb 220.353	69.1036	68.5807	68.6294			
Sb 206.834	-8.8780u	-3.4402u	-11.2246u			
Se 196.026	8.8597	3.4374	-2.6276u			
Sn 189.925	4.4433	3.5334	4.8004			
Sr 216.596	5.9532	6.0251	5.6217			
Ti 334.941	83.9014	83.9980	83.1084			
Tl 190.794	5.0332	6.0609	3.5792			
V 292.401	101.879	102.754	101.363			
Zn 206.200	71.8861	72.3689	71.4094			

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-1.1700	ppb	0.5016	42.9	-81.0282
Al 308.215	11462.3	ppb	68.1271	0.6	98192.4
As 188.980	31.7458	ppb	4.1046	12.9	24.1452
B 249.678	-2.2006	ppb	0.6033	27.4	-140.302
Ba 389.178	713.833	ppb	5.3195	0.7	23436.4
Be 313.042	2.4340	ppb	0.0147	0.6	5800.19
Ca 370.602	2581	ppb	11.48	0.4	12807
Cd 226.502	-0.3386	ppb	0.0126	3.7	492.585
Co 228.615	37.7140	ppb	0.3730	1.0	674.222

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<b>Label</b>	<b>Sol'n Conc.</b>	<b>Units</b>	<b>SD</b>	<b>%RSD</b>	<b>Int. (c/s)</b>
Cr 267.716	40.2913	ppb	0.1354	0.3	3370.63
Cu 324.754	8.4297	ppb	0.2742	3.3	822.265
Fe 271.441	72289.7	ppb	390.311	0.5	195348
K 766.491	175.935	ppb	1.0103	0.6	11404.8
Mg 279.078	1105.09	ppb	3.6702	0.3	5684.62
Mn 257.610	5556.80	ppb	31.5100	0.6	1884280
Mo 202.032	0.6021	ppb	0.3729	61.9	28.3377
Na 330.237	-205.361	ppb	146.098	71.1	135.825
Ni 231.604	10.9525	ppb	0.8728	8.0	55.9595
Pb 220.353	68.7712	ppb	0.2889	0.4	300.023
Sb 206.834	-7.8476	ppb	3.9932	50.9	26.1874
Se 196.026	3.2232	ppb	5.7467	178.3	-5.7565
Sn 189.925	4.2591	ppb	0.6533	15.3	-23.3768
Sr 216.596	5.8667	ppb	0.2152	3.7	383.403
Ti 334.941	83.6693	ppb	0.4881	0.6	27667.3
Tl 190.794	4.8911	ppb	1.2469	25.5	-48.0506
V 292.401	101.999	ppb	0.7035	0.7	3877.07
Zn 206.200	71.8881	ppb	0.4797	0.7	217.058

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Rack 1, Tube 12

Weight: 1

Volume: 1

Dilution: 1

<b>Label</b>	<b>Replicates</b>	<b>Concentration</b>
Ag 328.068	0.1603	-0.5012u 0.0906
Al 308.215	15261.6	15133.7 14766.0
As 188.980	40.5131	32.8996 36.9675
B 249.678	-2.8953u	-4.2228u -4.1875u
Ba 389.178	649.387	645.457 628.358
Be 313.042	2.6669	2.6583 2.6042
Ca 370.602	2320	2311 2265
Cd 226.502	-0.6638	-0.8058 -0.9602
Co 228.615	34.7330	34.7521 34.2471
Cr 267.716	53.1268	53.3093 51.7590
Cu 324.754	4.7345	4.2445 5.4911
Fe 271.441	97143.5	96556.4 94265.3
K 766.491	251.292	249.917 244.334
Mg 279.078	1505.98	1501.11 1462.46
Mn 257.610	5643.86	5605.59 5482.92
Mo 202.032	1.8695	1.4693 0.4239u
Na 330.237	-191.237u	-274.757u -204.332u
Ni 231.604	13.1861	13.8465 13.0664
Pb 220.353	51.3041	52.0753 50.2567
Sb 206.834	-5.3688u	-8.0951u -3.6192u
Se 196.026	11.6519	2.5046 5.8856
Sn 189.925	5.7914	1.2588 6.8201
Sr 216.596	1.1253	1.0936 0.5446
Ti 334.941	67.3579	66.7280 65.0866
Tl 190.794	4.9311u	7.0845 6.6475
V 292.401	127.365	126.609 123.048
Zn 206.200	46.1117	45.6092 44.9490

<b>Label</b>	<b>Sol'n Conc.</b>	<b>Units</b>	<b>SD</b>	<b>%RSD</b>	<b>Int. (c/s)</b>
Ag 328.068	-0.0834	ppb	0.3635	435.8	17.9197
Al 308.215	15053.8	ppb	257.274	1.7	128741

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Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
As 188.980	36.7934	ppb	3.8097	10.4	29.8427
B 249.678	-3.7685	ppb	0.7564	20.1	-233.914
Ba 389.178	641.067	ppb	11.1807	1.7	21052.1
Be 313.042	2.6431	ppb	0.0340	1.3	6360.64
Ca 370.602	2299	ppb	29.08	1.3	10658
Cd 226.502	-0.8100	ppb	0.1483	18.3	592.483
Co 228.615	34.5774	ppb	0.2862	0.8	610.716
Cr 267.716	52.7317	ppb	0.8473	1.6	4386.09
Cu 324.754	4.8234	ppb	0.6280	13.0	586.274
Fe 271.441	95988.4	ppb	1520.87	1.6	259336
K 766.491	248.514	ppb	3.6850	1.5	15891.4
Mg 279.078	1489.85	ppb	23.8453	1.6	7702.63
Mn 257.610	5577.46	ppb	84.0774	1.5	1891397
Mo 202.032	1.2542	ppb	0.7464	59.5	32.7394
Na 330.237	-223.442	ppb	44.9202	20.1	124.648
Ni 231.604	13.3663	ppb	0.4201	3.1	71.1660
Pb 220.353	51.2120	ppb	0.9128	1.8	246.923
Sb 206.834	-5.6944	ppb	2.2557	39.6	29.4538
Se 196.026	6.6807	ppb	4.6252	69.2	-3.2403
Sn 189.925	4.6234	ppb	2.9589	64.0	-22.7862
Sr 216.596	0.9211	ppb	0.3265	35.4	328.871
Ti 334.941	66.3909	ppb	1.1726	1.8	21961.5
Tl 190.794	6.2211	ppb	1.1383	18.3	-49.1782
V 292.401	125.674	ppb	2.3053	1.8	4782.92
Zn 206.200	45.5566	ppb	0.5832	1.3	137.933

Cont Calib Verif (CCV)      8/20/2015, 11:27:09 AM      Rack 1, Tube 13  
 Weight: 1      Volume: 1      Dilution: 1

Label	Replicates	Concentration
Ag 328.068	499.766	487.343
Al 308.215	4782.05	4788.13
As 188.980	472.534	486.969
B 249.678	461.844	465.169
Ba 389.178	4799.38	4801.25
Be 313.042	476.565	476.611
Ca 370.602	5106	5085
Cd 226.502	482.002	482.082
Co 228.615	478.576	477.933
Cr 267.716	4921.12	4907.76
Cu 324.754	5158.29	4916.80
Fe 271.441	4746.40	4732.45
K 766.491	9781.16	9806.19
Mg 279.078	4769.86	4759.67
Mn 257.610	4809.51	4794.90
Mo 202.032	484.965	482.795
Na 330.237	6730.00	6706.33
Ni 231.604	2386.19	2380.13
Pb 220.353	479.935	481.251
Sb 206.834	967.835	974.813
Se 196.026	4742.76	4778.62
Sn 189.925	4816.15	4833.24
Sr 216.596	2397.20	2385.82
Ti 334.941	478.589	477.082

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Label	Replicates Concentration					
Tl 190.794	4851.09	4844.12	4837.26			
V 292.401	4767.26	4744.65	4759.25			
Zn 206.200	2414.99	2392.70	2409.42			

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)	QC Value
Ag 328.068	493.866	ppb	6.2351	1.3	46828.4	98.77328
Al 308.215	4791.21	ppb	11.0381	0.2	42100.2	95.82426
As 188.980	479.235	ppb	7.2727	1.5	554.098	95.84702
B 249.678	464.557	ppb	2.4638	0.5	9082.08	92.91132
Ba 389.178	4806.60	ppb	10.9292	0.2	158649	96.13205
Be 313.042	476.929	ppb	0.5913	0.1	1274177	95.38576
Ca 370.602	5095	ppb	10.44	0.2	28708	101.90159
Cd 226.502	481.857	ppb	0.3220	0.1	42644.3	96.37148
Co 228.615	477.926	ppb	0.6529	0.1	9375.40	95.58524
Cr 267.716	4916.58	ppb	7.6351	0.2	397713	98.33154
Cu 324.754	5001.94	ppb	135.584	2.7	340209	100.03884
Fe 271.441	4738.58	ppb	7.1225	0.2	13127.0	94.77167
K 766.491	9809.33	ppb	29.8682	0.3	606914	98.09335
Mg 279.078	4771.06	ppb	12.0282	0.3	24979.0	95.42113
Mn 257.610	4800.61	ppb	7.8123	0.2	1627643	96.01221
Mo 202.032	484.361	ppb	1.3686	0.3	4409.05	96.87225
Na 330.237	6758.62	ppb	71.0673	1.1	742.046	90.11497
Ni 231.604	2383.68	ppb	3.1637	0.1	12775.7	95.34714
Pb 220.353	481.522	ppb	1.7382	0.4	1630.33	96.30443
Sb 206.834	971.902	ppb	3.6293	0.4	1725.49	97.19016
Se 196.026	4763.06	ppb	18.3904	0.4	3697.18	95.26124
Sn 189.925	4842.77	ppb	32.4538	0.7	7820.66	96.85542
Sr 216.596	2390.03	ppb	6.2389	0.3	55944.1	95.60120
Ti 334.941	478.056	ppb	0.8450	0.2	157996	95.61118
Tl 190.794	4844.16	ppb	6.9190	0.1	8948.23	96.88316
V 292.401	4757.05	ppb	11.4625	0.2	181778	95.14105
Zn 206.200	2405.70	ppb	11.6001	0.5	7180.62	96.22806

Cont Calib Blank (CCB)      8/20/2015, 11:30:53 AM      Rack 1, Tube 14  
 Weight: 1      Volume: 1      Dilution: 1

Label	Replicates Concentration		
Ag 328.068	-0.5449u	0.5796	0.1173
Al 308.215	-17.7287u	-17.1521u	-14.7894u
As 188.980	-2.4429u	2.1660	-0.6218u
B 249.678	5.5834	4.1604	3.5793
Ba 389.178	2.6980	2.1052	2.1286
Be 313.042	0.0448	0.0270	0.0344
Ca 370.602	9.461	5.379	5.878
Cd 226.502	0.3829	0.4968	0.3263
Co 228.615	0.6603	0.2065	0.3726
Cr 267.716	-0.0392u	0.1270	0.0683
Cu 324.754	0.6770	0.9487	0.4561
Fe 271.441	-2.2141u	-4.2215u	-0.2344u
K 766.491	0.0337	0.7623	0.3189
Mg 279.078	-1.9688u	-2.7779u	-5.0125u
Mn 257.610	0.6651	0.6394	0.6321
Mo 202.032	0.3553	0.9668	0.5464
Na 330.237	-335.596u	-200.720u	-63.9515u

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Label	Replicates Concentration		
Ni 231.604	1.6029	2.6100	1.4558
Pb 220.353	-3.3664u	-0.5429u	-1.1252u
Sb 206.834	-1.8391u	-5.2236u	-7.2004u
Se 196.026	1.1880	4.5188	-8.4374u
Sn 189.925	2.9158	-0.2655u	2.5053
Sr 216.596	0.2311	0.0398	0.1208
Ti 334.941	0.0966	0.0707	0.1757
Tl 190.794	3.9793	6.5523	5.2354
V 292.401	0.3223	0.4452	0.3469
Zn 206.200	0.8915	0.7824	0.7510

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)	QC Value
Ag 328.068	0.0507	ppb	0.5652	1115.1	16.3234	0.05069
Al 308.215	-16.5567	ppb	1.5575	9.4	550.558	-16.55672
As 188.980	-0.2995	ppb	2.3213	774.9	-12.9333	-0.29955
B 249.678	4.4410	ppb	1.0311	23.2	181.344	4.44102
Ba 389.178	2.3106	ppb	0.3357	14.5	-136.373	2.31059
Be 313.042	0.0354	ppb	0.0089	25.2	-616.970	0.03538
Ca 370.602	6.906	ppb	2.227	32.2	3.138	6.90601
Cd 226.502	0.4020	ppb	0.0868	21.6	126.562	0.40201
Co 228.615	0.4131	ppb	0.2296	55.6	-63.2565	0.41314
Cr 267.716	0.0520	ppb	0.0843	162.0	47.6283	0.05203
Cu 324.754	0.6939	ppb	0.2468	35.6	268.879	0.69394
Fe 271.441	-2.2233	ppb	1.9936	89.7	149.314	-2.22333
K 766.491	0.3716	ppb	0.3672	98.8	551.922	0.37162
Mg 279.078	-3.2531	ppb	1.5765	48.5	92.6271	-3.25308
Mn 257.610	0.6455	ppb	0.0173	2.7	255.860	0.64553
Mo 202.032	0.6228	ppb	0.3128	50.2	33.1699	0.62281
Na 330.237	-200.089	ppb	135.824	67.9	165.985	-200.08936
Ni 231.604	1.8896	ppb	0.6283	33.2	0.6483	1.88958
Pb 220.353	-1.6782	ppb	1.4907	88.8	57.0612	-1.67816
Sb 206.834	-4.7544	ppb	2.7113	57.0	32.1666	-4.75438
Se 196.026	-0.9102	ppb	6.7281	739.2	-10.5865	-0.91022
Sn 189.925	1.7185	ppb	1.7304	100.7	-27.4951	1.71854
Sr 216.596	0.1306	ppb	0.0960	73.5	61.8139	0.13058
Ti 334.941	0.1143	ppb	0.0547	47.9	42.8501	0.11434
Tl 190.794	5.2557	ppb	1.2866	24.5	-41.4729	5.25566
V 292.401	0.3715	ppb	0.0650	17.5	-14.6160	0.37148
Zn 206.200	0.8083	ppb	0.0738	9.1	4.0821	0.80830

680-115692-a-51-b^10 (Samp) 8/20/2015, 11:34:37 AM Rack 1, Tube 15

Weight: 1 Volume: 1 Dilution: 1

Label	Replicates Concentration		
Ag 328.068	-0.2298u	-0.0484u	-1.3453u
Al 308.215	16829.2	16601.1	16130.8
As 188.980	36.2498	32.2341	34.5521
B 249.678	3.6381u	2.9849u	3.8217u
Ba 389.178	158.697	155.984	152.188
Be 313.042	1.3277	1.3126	1.2714
Ca 370.602	15341	15219	14827
Cd 226.502	-0.0133	-0.0476	-0.0855
Co 228.615	13.1727	13.4306	13.3251
Cr 267.716	98.3772	97.9202	95.1684

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Label	Replicates	Concentration				
Cu 324.754	23.3549	23.9501	22.7386			
Fe 271.441	63010.6	62271.4	60487.3			
K 766.491	610.107	603.513	583.290			
Mg 279.078	2417.28	2389.79	2321.15			
Mn 257.610	2696.52	2672.80	2594.46			
Mo 202.032	2.3511	1.1834	1.7361			
Na 330.237	-81.9610u	-272.679u	-332.606u			
Ni 231.604	11.6036	10.5823	10.0737			
Pb 220.353	53.5576	52.9307	51.9135			
Sb 206.834	-7.9597u	-5.7768u	-1.6705u			
Se 196.026	-2.7911u	1.7775	2.1182			
Sn 189.925	7.3533	3.9366	4.2985			
Sr 216.596	32.9799	32.2272	31.4510			
Ti 334.941	574.839	568.919	553.212			
Tl 190.794	0.7701u	6.1453	4.0072			
V 292.401	116.199	113.692	110.952			
Zn 206.200	86.0965	85.2524	81.6742			

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.5412	ppb	0.7023	129.8	-37.2020
Al 308.215	16520.4	ppb	356.098	2.2	141208
As 188.980	34.3453	ppb	2.0158	5.9	27.3407
B 249.678	3.4815	ppb	0.4398	12.6	-2.6377
Ba 389.178	155.623	ppb	3.2696	2.1	4985.81
Be 313.042	1.3039	ppb	0.0291	2.2	2788.72
Ca 370.602	15129	ppb	268.7	1.8	82621
Cd 226.502	-0.0488	ppb	0.0361	74.0	454.104
Co 228.615	13.3095	ppb	0.1296	1.0	210.113
Cr 267.716	97.1553	ppb	1.7358	1.8	7946.68
Cu 324.754	23.3479	ppb	0.6058	2.6	1832.14
Fe 271.441	61923.1	ppb	1297.18	2.1	167355
K 766.491	598.970	ppb	13.9739	2.3	37555.6
Mg 279.078	2376.07	ppb	49.5082	2.1	12474.2
Mn 257.610	2654.59	ppb	53.4061	2.0	900327
Mo 202.032	1.7569	ppb	0.5841	33.2	39.4296
Na 330.237	-229.082	ppb	130.886	57.1	138.040
Ni 231.604	10.7532	ppb	0.7791	7.2	54.0110
Pb 220.353	52.8006	ppb	0.8298	1.6	244.573
Sb 206.834	-5.1356	ppb	3.1932	62.2	31.8129
Se 196.026	0.3682	ppb	2.7413	744.5	-9.0298
Sn 189.925	5.1961	ppb	1.8769	36.1	-21.8576
Sr 216.596	32.2194	ppb	0.7645	2.4	973.979
Ti 334.941	565.657	ppb	11.1766	2.0	186949
Tl 190.794	3.6408	ppb	2.7062	74.3	-51.3579
V 292.401	113.614	ppb	2.6243	2.3	4323.18
Zn 206.200	84.3410	ppb	2.3478	2.8	253.958

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 Weight: 1    Volume: 1    Dilution: 1

Label	Replicates	Concentration				
Ag 328.068	0.0871	0.0246	0.4809			
Al 308.215	13928.7	13917.8	13457.1			
As 188.980	22.9315	21.7237	27.2528			

Label	Replicates	Concentration			
B 249.678	0.6293u	0.3435u	0.6152u		
Ba 389.178	173.406	173.980	168.112		
Be 313.042	1.2367	1.2300	1.1853		
Ca 370.602	5775	5775	5585		
Cd 226.502	-0.1489	-0.1367	-0.2857		
Co 228.615	22.0430	21.4883	21.2418		
Cr 267.716	58.7434	58.7383	56.9840		
Cu 324.754	16.7211	14.2989	14.8435		
Fe 271.441	59592.7	59503.2	57652.5		
K 766.491	392.203	390.799	377.866		
Mg 279.078	831.466	827.516	795.275		
Mn 257.610	2302.17	2294.40	2221.57		
Mo 202.032	2.9821	2.5905	3.3573		
Na 330.237	-314.320u	-148.930u	-148.160u		
Ni 231.604	12.7513	12.7463	11.9776		
Pb 220.353	58.9792	61.7944	58.6767		
Sb 206.834	-10.5316u	-9.8387u	-4.2795u		
Se 196.026	-1.2145u	-1.9679u	7.6907		
Sn 189.925	2.5985	0.9456	5.6381		
Sr 216.596	23.7742	23.6920	22.3510		
Ti 334.941	271.518	270.271	262.222		
Tl 190.794	8.3159	-1.2808u	5.8989		
V 292.401	97.7750	97.1265	94.3658		
Zn 206.200	44.6658	43.5731	43.3414		

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	0.1975	ppb	0.2474	125.2	31.5906
Al 308.215	13767.8	ppb	269.156	2.0	117797
As 188.980	23.9693	ppb	2.9070	12.1	15.0978
B 249.678	0.5293	ppb	0.1611	30.4	-51.7004
Ba 389.178	171.833	ppb	3.2353	1.9	5515.20
Be 313.042	1.2173	ppb	0.0280	2.3	2551.19
Ca 370.602	5712	ppb	109.9	1.9	30416
Cd 226.502	-0.1904	ppb	0.0827	43.4	424.759
Co 228.615	21.5911	ppb	0.4104	1.9	362.776
Cr 267.716	58.1553	ppb	1.0143	1.7	4787.14
Cu 324.754	15.2879	ppb	1.2708	8.3	1283.29
Fe 271.441	58916.1	ppb	1095.23	1.9	159237
K 766.491	386.956	ppb	7.9033	2.0	24449.5
Mg 279.078	818.086	ppb	19.8533	2.4	4306.68
Mn 257.610	2272.71	ppb	44.4606	2.0	770827
Mo 202.032	2.9766	ppb	0.3834	12.9	50.6953
Na 330.237	-203.803	ppb	95.7107	47.0	141.471
Ni 231.604	12.4918	ppb	0.4453	3.6	63.0155
Pb 220.353	59.8168	ppb	1.7194	2.9	267.041
Sb 206.834	-8.2166	ppb	3.4272	41.7	26.0968
Se 196.026	1.5028	ppb	5.3722	357.5	-8.2735
Sn 189.925	3.0607	ppb	2.3802	77.8	-25.3194
Sr 216.596	23.2724	ppb	0.7990	3.4	756.363
Ti 334.941	268.004	ppb	5.0454	1.9	88581.2
Tl 190.794	4.3113	ppb	4.9915	115.8	-49.9939
V 292.401	96.4224	ppb	1.8104	1.9	3663.53
Zn 206.200	43.8601	ppb	0.7073	1.6	132.799

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Weight: 1

Volume: 1

Rack 1, Tube 17

Dilution: 1

Label	Replicates	Concentration			
Ag 328.068	0.0915	-0.8156u	-0.6838u		
Al 308.215	13299.4	12928.0	12809.3		
As 188.980	37.3883	34.4735	30.0361		
B 249.678	-3.2635u	-2.0170u	-2.7046u		
Ba 389.178	417.110	405.229	402.760		
Be 313.042	2.3262	2.2746	2.2392		
Ca 370.602	3044	2969	2945		
Cd 226.502	-0.2934	-0.4589	-0.5000		
Co 228.615	33.3110	32.4595	31.9641		
Cr 267.716	58.4417	56.7559	55.9741		
Cu 324.754	6.3914	6.5008	6.9931		
Fe 271.441	92316.6	89745.0	88966.5		
K 766.491	218.334	212.779	211.552		
Mg 279.078	1103.08	1067.57	1058.58		
Mn 257.610	5568.98	5415.61	5358.62		
Mo 202.032	0.6509	0.6465	0.7856		
Na 330.237	-348.810u	-287.944u	44.5002u		
Ni 231.604	12.9803	12.2885	11.4899		
Pb 220.353	52.8918	53.1594	49.4974		
Sb 206.834	-8.3219u	-7.9243u	-12.1566u		
Se 196.026	11.5704	-0.5501	11.2403		
Sn 189.925	3.2414	5.4656	5.2918		
Sr 216.596	4.3120	3.6753	4.1153		
Ti 334.941	98.9020	96.1257	94.6727		
Tl 190.794	6.1005	1.6767u	8.7642		
V 292.401	124.914	121.775	120.182		
Zn 206.200	52.6316	52.4948	51.3503		

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.4693	ppb	0.4901	104.4	-18.5108
Al 308.215	13012.3	ppb	255.695	2.0	111379
As 188.980	33.9660	ppb	3.7023	10.9	26.5631
B 249.678	-2.6617	ppb	0.6244	23.5	-197.422
Ba 389.178	408.366	ppb	7.6720	1.9	13357.2
Be 313.042	2.2800	ppb	0.0437	1.9	5390.40
Ca 370.602	2986	ppb	51.90	1.7	14612
Cd 226.502	-0.4174	ppb	0.1093	26.2	593.175
Co 228.615	32.5782	ppb	0.6812	2.1	572.582
Cr 267.716	57.0572	ppb	1.2611	2.2	4732.92
Cu 324.754	6.6285	ppb	0.3205	4.8	706.750
Fe 271.441	90342.7	ppb	1753.22	1.9	244092
K 766.491	214.222	ppb	3.6137	1.7	13771.5
Mg 279.078	1076.41	ppb	23.5267	2.2	5537.30
Mn 257.610	5447.74	ppb	108.798	2.0	1847388
Mo 202.032	0.6943	ppb	0.0791	11.4	28.0233
Na 330.237	-197.418	ppb	211.706	107.2	129.130
Ni 231.604	12.2529	ppb	0.7458	6.1	64.6639
Pb 220.353	51.8495	ppb	2.0414	3.9	248.014
Sb 206.834	-9.4676	ppb	2.3372	24.7	23.3955
Se 196.026	7.4202	ppb	6.9045	93.0	-2.6727
Sn 189.925	4.6662	ppb	1.2370	26.5	-22.7167
Sr 216.596	4.0342	ppb	0.3260	8.1	387.158

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<b>Label</b>	<b>Sol'n Conc.</b>	<b>Units</b>	<b>SD</b>	<b>%RSD</b>	<b>Int. (c/s)</b>
Ti 334.941	96.5668	ppb	2.1489	2.2	31931.9
Tl 190.794	5.5138	ppb	3.5800	64.9	-49.7450
V 292.401	122.290	ppb	2.4080	2.0	4653.49
Zn 206.200	52.1589	ppb	0.7036	1.3	157.710

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**Weight:** 1      **Volume:** 1

Rack 1, Tube 18

### Dilution: 1

Label	Replicates	Concentration
Ag 328.068	-0.7622u	-0.3175u
Al 308.215	17720.2	17817.1
As 188.980	28.4734	25.7596
B 249.678	7.0516u	7.2410u
Ba 389.178	280.589	280.593
Be 313.042	2.2698	2.2737
Ca 370.602	38660	38785
Cd 226.502	-0.0753	-0.0613
Co 228.615	16.8415	17.4392
Cr 267.716	155.391	156.169
Cu 324.754	31.2273	30.9788
Fe 271.441	80279.7	80707.5
K 766.491	824.196	828.401
Mg 279.078	3425.08	3441.44
Mn 257.610	5210.27	5243.14
Mo 202.032	1.8799	1.8349
Na 330.237	-182.489u	-247.680u
Ni 231.604	13.2082	13.0219
Pb 220.353	77.1911	76.7268
Sb 206.834	-3.1786u	-11.7119u
Se 196.026	5.8584	5.6224
Sn 189.925	8.5284	6.5055
Sr 216.596	69.1880	69.2831
Ti 334.941	1255.14	1257.49
Tl 190.794	7.1189	2.9397u
V 292.401	144.621	145.990
Zn 206.200	123.434	124.807

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.5001	ppb	0.2328	46.5	-23.3586
Al 308.215	17728.2	ppb	85.1867	0.5	151486
As 188.980	27.3166	ppb	1.4005	5.1	18.8106
B 249.678	6.8301	ppb	0.5557	8.1	12.9014
Ba 389.178	279.800	ppb	1.3694	0.5	9106.59
Be 313.042	2.2690	ppb	0.0052	0.2	5380.32
Ca 370.602	38668	ppb	113.2	0.3	212874
Cd 226.502	-0.0627	ppb	0.0120	19.1	559.763
Co 228.615	17.0512	ppb	0.3364	2.0	308.625
Cr 267.716	155.604	ppb	0.4943	0.3	12702.4
Cu 324.754	31.2786	ppb	0.3285	1.1	2378.20
Fe 271.441	80329.1	ppb	356.232	0.4	217053
K 766.491	823.701	ppb	4.9666	0.6	51447.8
Mg 279.078	3429.71	ppb	10.2337	0.3	17906.1
Mn 257.610	5217.62	ppb	22.7472	0.4	1769357
Mo 202.032	1.8706	ppb	0.0321	1.7	39.2699

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Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Na 330.237	-253.841	ppb	74.6221	29.4	128.324
Ni 231.604	12.8617	ppb	0.4486	3.5	67.0442
Pb 220.353	76.8296	ppb	0.3227	0.4	326.087
Sb 206.834	-6.7529	ppb	4.4319	65.6	29.7094
Se 196.026	6.9079	ppb	2.0255	29.3	-3.0842
Sn 189.925	7.7025	ppb	1.0613	13.8	-17.7944
Sr 216.596	69.3026	ppb	0.1254	0.2	1890.58
Ti 334.941	1252.68	ppb	6.4073	0.5	413991
Tl 190.794	4.6718	ppb	2.1795	46.7	-49.9604
V 292.401	145.073	ppb	0.7941	0.5	5531.89
Zn 206.200	123.552	ppb	1.2002	1.0	371.145

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 Weight: 1    Volume: 1    Dilution: 1

Label	Replicates	Concentration			
Ag 328.068	0.1934	0.3438	0.6135		
Al 308.215	17220.6	16843.2	17120.5		
As 188.980	21.5056	20.4840	14.7824		
B 249.678	10.0827	10.1765	10.7769		
Ba 389.178	251.066	243.511	249.542		
Be 313.042	1.7509	1.7112	1.7486		
Ca 370.602	47068	46190	46816		
Cd 226.502	-0.0413	-0.1502	-0.0065		
Co 228.615	10.9327	11.5275	11.2890		
Cr 267.716	187.202	182.897	186.452		
Cu 324.754	45.6969	45.6411	46.5000		
Fe 271.441	66477.9	64969.4	66054.3		
K 766.491	976.155	950.130	966.293		
Mg 279.078	4779.15	4672.58	4752.09		
Mn 257.610	5572.93	5456.47	5546.93		
Mo 202.032	2.0032	1.9325	1.8520		
Na 330.237	-405.650u	-19.3101u	-156.244u		
Ni 231.604	14.2693	13.8794	12.8167		
Pb 220.353	77.2813	76.6879	75.0697		
Sb 206.834	-6.0354u	-11.1414u	-8.4535u		
Se 196.026	2.7560	0.9360	14.6813		
Sn 189.925	11.6476	8.2022	11.1503		
Sr 216.596	78.6762	76.9980	79.4511		
Ti 334.941	1493.02	1464.74	1487.19		
Tl 190.794	7.1236	3.2411	1.7427u		
V 292.401	145.537	142.294	143.829		
Zn 206.200	151.666	149.961	153.032		

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	0.3836	ppb	0.2129	55.5	64.6482
Al 308.215	17061.4	ppb	195.536	1.1	145814
As 188.980	18.9240	ppb	3.6229	19.1	9.0487
B 249.678	10.3454	ppb	0.3766	3.6	119.735
Ba 389.178	248.040	ppb	3.9953	1.6	8048.44
Be 313.042	1.7369	ppb	0.0222	1.3	3961.93
Ca 370.602	46691	ppb	452.2	1.0	257742
Cd 226.502	-0.0660	ppb	0.0750	113.7	471.752
Co 228.615	11.2497	ppb	0.2993	2.7	202.908

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Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Cr 267.716	185.517	ppb	2.3001	1.2	15119.4
Cu 324.754	45.9460	ppb	0.4806	1.0	3369.50
Fe 271.441	65833.9	ppb	778.012	1.2	177914
K 766.491	964.193	ppb	13.1386	1.4	60132.6
Mg 279.078	4734.61	ppb	55.3968	1.2	24749.7
Mn 257.610	5525.45	ppb	61.1304	1.1	1873664
Mo 202.032	1.9292	ppb	0.0756	3.9	40.7064
Na 330.237	-193.734	ppb	195.879	101.1	139.242
Ni 231.604	13.6552	ppb	0.7518	5.5	69.9466
Pb 220.353	76.3463	ppb	1.1447	1.5	321.998
Sb 206.834	-8.5434	ppb	2.5542	29.9	27.5277
Se 196.026	6.1244	ppb	7.4661	121.9	-3.4645
Sn 189.925	10.3334	ppb	1.8623	18.0	-13.5293
Sr 216.596	78.3751	ppb	1.2540	1.6	2065.43
Ti 334.941	1481.65	ppb	14.9295	1.0	489658
Tl 190.794	4.0358	ppb	2.7771	68.8	-48.6594
V 292.401	143.887	ppb	1.6224	1.1	5486.98
Zn 206.200	151.553	ppb	1.5389	1.0	454.931

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Rack 1, Tube 20

**Weight:** 1

Volume: 1

**Dilution: 1**

Label	Replicates	Concentration	
Ag 328.068	-0.4351	-0.9270u	-0.7034u
Al 308.215	15966.2	15813.5	15672.4
As 188.980	24.2982	19.9448	19.2025
B 249.678	-2.0707u	-1.5056u	-0.7334u
Ba 389.178	579.865	577.090	572.031
Be 313.042	1.1679	1.1586	1.1536
Ca 370.602	6346	6285	6249
Cd 226.502	-0.0279	0.0281	-0.1198
Co 228.615	62.2499	60.3325	62.2367
Cr 267.716	80.9215	79.6302	79.0856
Cu 324.754	17.3471	19.0491	19.5986
Fe 271.441	54639.2	54066.3	53725.1
K 766.491	350.673	348.302	345.093
Mg 279.078	1750.99	1733.43	1719.08
Mn 257.610	9264.88	9182.44	9132.00
Mo 202.032	4.4390	3.9003	4.5405
Na 330.237	-315.902u	-237.851u	-192.006u
Ni 231.604	14.1891	12.7073	14.8189
Pb 220.353	137.408	138.554	138.344
Sb 206.834	-8.7350u	-13.7618u	-0.9571u
Se 196.026	-3.5336	3.8515	-4.0098
Sn 189.925	2.8727	5.7697	5.3362
Sr 216.596	13.6294	13.3255	12.8976
Ti 334.941	255.918	253.516	251.977
Tl 190.794	6.2265	10.2080	8.9932
V 292.401	97.6018	96.6976	95.8801
Zn 206.200	54.1083	53.2216	53.1686

<b>Label</b>	<b>Sol'n Conc.</b>	<b>Units</b>	<b>SD</b>	<b>%RSD</b>	<b>Int. (c/s)</b>
Ag 328.068	-0.6885	ppb	0.2463	35.8	-11.0920
Al 308.215	15817.4	ppb	146.903	0.9	135226

E08192015.wvq. All Data Report 8/20/2015, 3:03:52 PM

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
As 188.980	21.1485	ppb	2.7528	13.0	11.8148
B 249.678	-1.4365	ppb	0.6713	46.7	-76.9349
Ba 389.178	576.329	ppb	3.9722	0.7	18879.4
Be 313.042	1.1600	ppb	0.0073	0.6	2395.40
Ca 370.602	6293	ppb	48.77	0.8	34073
Cd 226.502	-0.0399	ppb	0.0746	187.2	409.573
Co 228.615	61.6064	ppb	1.1032	1.8	1153.16
Cr 267.716	79.8791	ppb	0.9429	1.2	6592.98
Cu 324.754	18.6649	ppb	1.1739	6.3	1511.00
Fe 271.441	54143.5	ppb	461.946	0.9	146357
K 766.491	348.023	ppb	2.8007	0.8	22042.7
Mg 279.078	1734.50	ppb	15.9795	0.9	8842.96
Mn 257.610	9193.11	ppb	67.0779	0.7	3117002
Mo 202.032	4.2933	ppb	0.3441	8.0	62.9224
Na 330.237	-248.586	ppb	62.6414	25.2	139.678
Ni 231.604	13.9051	ppb	1.0841	7.8	69.9748
Pb 220.353	138.102	ppb	0.6104	0.4	523.363
Sb 206.834	-7.8180	ppb	6.4514	82.5	27.1964
Se 196.026	-1.2306	ppb	4.4077	358.2	-7.6689
Sn 189.925	4.6596	ppb	1.5625	33.5	-22.7274
Sr 216.596	13.2842	ppb	0.3676	2.8	509.765
Ti 334.941	253.804	ppb	1.9861	0.8	83889.7
Tl 190.794	8.4759	ppb	2.0405	24.1	-35.3629
V 292.401	96.7265	ppb	0.8612	0.9	3673.29
Zn 206.200	53.4995	ppb	0.5279	1.0	161.544

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Rack 1, Tube 21

Weight: 1

Volume: 1

Dilution: 1

Label	Replicates	Concentration	
Ag 328.068	-1.4036	-0.1897	-1.3347
Al 308.215	9919.08	9779.82	9547.16
As 188.980	40.2846	35.1599	30.6167
B 249.678	-4.7167u	-4.7557u	-4.2743u
Ba 389.178	2363.41	2338.23	2280.47
Be 313.042	1.5774	1.5489	1.5118
Ca 370.602	2573	2537	2479
Cd 226.502	-0.0872	-0.0454	-0.3105
Co 228.615	44.6161	45.0403	43.7542
Cr 267.716	46.7764	45.9498	44.7951
Cu 324.754	17.6713	17.3948	17.7892
Fe 271.441	69928.2	68901.5	67230.0
K 766.491	171.945	170.633	166.253
Mg 279.078	1062.05	1049.12	1031.93
Mn 257.610	28476.3x	28113.7x	27422.4x
Mo 202.032	1.6400	1.9986	1.3204
Na 330.237	-342.138u	-337.153u	-245.233u
Ni 231.604	12.2928	11.8885	12.6767
Pb 220.353	48.0318	51.6777	44.6133
Sb 206.834	-15.1091u	-7.3280u	-13.6883u
Se 196.026	15.1234	6.8428	2.8130
Sn 189.925	5.0315	4.3328	5.0776
Sr 216.596	37.9159	37.0036	36.2400
Ti 334.941	97.2738	95.5381	92.8282

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<b>Label</b>	<b>Replicates</b>	<b>Concentration</b>
Tl 190.794	9.7166	10.6431
V 292.401	88.9800	88.2853
Zn 206.200	55.4044	53.3661
		53.5239

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.9760b	ppb	0.6819	69.9	66.9330
Al 308.215	9748.68b	ppb	187.905	1.9	83616.9
As 188.980	35.3537b	ppb	4.8369	13.7	28.4557
B 249.678	-4.5822b	ppb	0.2674	5.8	-176.688
Ba 389.178	2327.37b	ppb	42.5261	1.8	76750.0
Be 313.042	1.5460b	ppb	0.0329	2.1	3415.66
Ca 370.602	2530b	ppb	47.63	1.9	13727
Cd 226.502	-0.1477b	ppb	0.1426	96.5	487.628
Co 228.615	44.4702b	ppb	0.6553	1.5	808.243
Cr 267.716	45.8404b	ppb	0.9952	2.2	3981.93
Cu 324.754	17.6184b	ppb	0.2025	1.1	1445.70
Fe 271.441	68686.6b	ppb	1361.87	2.0	185621
K 766.491	169.610b	ppb	2.9804	1.8	11013.8
Mg 279.078	1047.70b	ppb	15.1065	1.4	4487.07
Mn 257.610	28004.1xb	ppb	535.426	1.9	9494469
Mo 202.032	1.6530b	ppb	0.3393	20.5	38.1073
Na 330.237	-308.175b	ppb	54.5658	17.7	128.752
Ni 231.604	12.2860b	ppb	0.3941	3.2	62.7382
Pb 220.353	48.1076b	ppb	3.5328	7.3	241.815
Sb 206.834	-12.0418b	ppb	4.1436	34.4	19.3771
Se 196.026	8.2597b	ppb	6.2763	76.0	6.9300
Sn 189.925	4.8140b	ppb	0.4173	8.7	-22.4772
Sr 216.596	37.0532b	ppb	0.8390	2.3	1104.58
Ti 334.941	95.2133b	ppb	2.2405	2.4	31481.1
Tl 190.794	10.2209b	ppb	0.4687	4.6	-18.1997
V 292.401	87.7870b	ppb	1.5054	1.7	3332.08
Zn 206.200	54.0981b	ppb	1.1340	2.1	163.622

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Rack 1, Tube 22

**Weight:** 1

Volume: 1

### Dilution: 1

<u>Label</u>	<u>Replicates</u>	<u>Concentration</u>	
Ag 328.068	-1.1537u	-0.3243	-1.1629u
Al 308.215	21521.0	20942.3	20933.2
As 188.980	69.3551	65.4178	67.8184
B 249.678	-10.1705u	-9.4518u	-9.1210u
Ba 389.178	2305.78	2239.29	2241.69
Be 313.042	5.1154	4.9750	4.9763
Ca 370.602	4067	3952	4003
Cd 226.502	-0.9671	-1.5967	-1.5865
Co 228.615	58.1085	57.3975	58.2990
Cr 267.716	88.1044	85.7905	86.0855
Cu 324.754	9.1300	7.8908	9.0401
Fe 271.441	190408	186791	187143
K 766.491	160.156	155.817	155.117
Mg 279.078	2682.73	2612.30	2622.53
Mn 257.610	14111.8	13611.1	13451.1
Mo 202.032	2.2712	1.8289	2.1206
Na 330.237	-129.255u	-338.456u	-264.903u

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Label	Replicates	Concentration				
Ni 231.604	18.3480	17.3809	16.3819			
Pb 220.353	52.3480	56.1978	54.9273			
Sb 206.834	-8.3070u	-15.5167u	-13.4302u			
Se 196.026	9.1917	0.4817	7.4231			
Sn 189.925	5.9726	3.4201	2.7352			
Sr 216.596	6.1048	5.5795	5.9542			
Ti 334.941	95.4280	93.2511	93.5292			
Tl 190.794	9.3470	7.4782u	6.3317u			
V 292.401	215.800	210.151	210.662			
Zn 206.200	76.3923	74.6274	73.7486			

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.8803	ppb	0.4816	54.7	-28.1001
Al 308.215	21132.2	ppb	336.793	1.6	180457
As 188.980	67.5304	ppb	1.9844	2.9	65.1438
B 249.678	-9.5811	ppb	0.5366	5.6	-592.370
Ba 389.178	2262.25	ppb	37.7119	1.7	74699.5
Be 313.042	5.0222	ppb	0.0807	1.6	12721.0
Ca 370.602	4007	ppb	57.86	1.4	18283
Cd 226.502	-1.3834	ppb	0.3606	26.1	1091.31
Co 228.615	57.9350	ppb	0.4751	0.8	1069.83
Cr 267.716	86.6602	ppb	1.2594	1.5	7225.19
Cu 324.754	8.6870	ppb	0.6910	8.0	884.557
Fe 271.441	188114	ppb	1994.54	1.1	508083
K 766.491	157.030	ppb	2.7295	1.7	10236.1
Mg 279.078	2639.19	ppb	38.0578	1.4	13410.7
Mn 257.610	13724.6	ppb	344.676	2.5	4653940
Mo 202.032	2.0735	ppb	0.2249	10.8	34.3136
Na 330.237	-244.205	ppb	106.125	43.5	85.1704
Ni 231.604	17.3703	ppb	0.9831	5.7	101.263
Pb 220.353	54.4911	ppb	1.9616	3.6	276.354
Sb 206.834	-12.4180	ppb	3.7099	29.9	16.9235
Se 196.026	5.6988	ppb	4.6039	80.8	-1.5353
Sn 189.925	4.0426	ppb	1.7061	42.2	-23.7281
Sr 216.596	5.8795	ppb	0.2705	4.6	683.635
Ti 334.941	94.0694	ppb	1.1848	1.3	31123.2
Tl 190.794	7.7190	ppb	1.5220	19.7	-53.2290
V 292.401	212.204	ppb	3.1241	1.5	8095.88
Zn 206.200	74.9228	ppb	1.3464	1.8	225.774

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 Weight: 1    Volume: 1    Dilution: 1

Label	Replicates	Concentration				
Ag 328.068	-0.7651u	-0.6914u	0.1311			
Al 308.215	17687.7	17152.3	16819.9			
As 188.980	32.9052	34.8416	28.2854			
B 249.678	-3.5129u	-2.7484u	-3.2467u			
Ba 389.178	332.930	322.285	315.630			
Be 313.042	3.0512	2.9609	2.9018			
Ca 370.602	8453	8215	8043			
Cd 226.502	-0.2463	-0.3151	-0.6306			
Co 228.615	29.3633	27.7076	26.9325			
Cr 267.716	70.9065	68.9483	67.3189			

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Label	Replicates	Concentration				
Cu 324.754	19.2491	18.8674	19.1857			
Fe 271.441	94019.5	91233.3	89464.1			
K 766.491	485.108	470.982	459.268			
Mg 279.078	2019.60	1960.89	1922.73			
Mn 257.610	3809.04	3699.96	3622.02			
Mo 202.032	2.0777	1.7368	1.2517			
Na 330.237	-231.057u	-145.742u	-342.663u			
Ni 231.604	16.0226	16.2197	14.2836			
Pb 220.353	62.5840	59.2084	58.9569			
Sb 206.834	-13.6493u	-9.4792u	-11.0968u			
Se 196.026	7.2291	8.8224	-7.2384u			
Sn 189.925	6.2445	3.6156	3.8028			
Sr 216.596	14.3312	13.5791	12.6361			
Ti 334.941	173.351	168.063	164.608			
Tl 190.794	7.7543	5.2425u	5.7632			
V 292.401	121.142	117.320	115.313			
Zn 206.200	177.750	171.651	167.614			

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.4418	ppb	0.4975	112.6	-26.5827
Al 308.215	17220.0	ppb	437.861	2.5	147162
As 188.980	32.0107	ppb	3.3684	10.5	24.2354
B 249.678	-3.1693	ppb	0.3881	12.2	-210.392
Ba 389.178	323.615	ppb	8.7262	2.7	10559.9
Be 313.042	2.9713	ppb	0.0753	2.5	7241.01
Ca 370.602	8237	ppb	205.7	2.5	43556
Cd 226.502	-0.3973	ppb	0.2049	51.6	601.638
Co 228.615	28.0011	ppb	1.2417	4.4	484.717
Cr 267.716	69.0579	ppb	1.7963	2.6	5691.83
Cu 324.754	19.1008	ppb	0.2046	1.1	1555.18
Fe 271.441	91572.3	ppb	2296.54	2.5	247411
K 766.491	471.786	ppb	12.9388	2.7	29693.4
Mg 279.078	1967.74	ppb	48.8000	2.5	10286.4
Mn 257.610	3710.34	ppb	93.9411	2.5	1258385
Mo 202.032	1.6887	ppb	0.4151	24.6	36.9671
Na 330.237	-239.821	ppb	98.7527	41.2	124.946
Ni 231.604	15.5087	ppb	1.0655	6.9	82.2618
Pb 220.353	60.2498	ppb	2.0254	3.4	274.571
Sb 206.834	-11.4084	ppb	2.1024	18.4	20.3340
Se 196.026	2.9377	ppb	8.8487	301.2	-6.8466
Sn 189.925	4.5543	ppb	1.4667	32.2	-22.8982
Sr 216.596	13.5155	ppb	0.8493	6.3	612.171
Ti 334.941	168.674	ppb	4.4032	2.6	55763.1
Tl 190.794	6.2533	ppb	1.3257	21.2	-50.0955
V 292.401	117.925	ppb	2.9613	2.5	4485.97
Zn 206.200	172.339	ppb	5.1029	3.0	518.270

680-115692-a-23-b^10 (Samp)    8/20/2015, 12:08:24 PM    Rack 1, Tube 24  
 Weight: 1    Volume: 1    Dilution: 1

Label	Replicates	Concentration				
Ag 328.068	-0.4056u	-0.3856u	0.9755			
Al 308.215	14064.7	14000.1	13716.1			
As 188.980	31.7792	26.2905	24.2171			

<b>Label</b>	<b>Replicates Concentration</b>			
B 249.678	-0.1253u	-0.7536u	-0.7077u	
Ba 389.178	80.5827	79.8152	79.3908	
Be 313.042	0.5248	0.5090	0.5080	
Ca 370.602	8803	8795	8612	
Cd 226.502	-0.3437	-0.2791	-0.1407	
Co 228.615	6.9672	6.9838	7.0156	
Cr 267.716	81.8090	81.6819	79.8679	
Cu 324.754	15.3789	16.0556	15.0326	
Fe 271.441	57672.6	57455.4	56301.0	
K 766.491	433.423	433.457	424.806	
Mg 279.078	1847.92	1843.59	1805.26	
Mn 257.610	1467.23	1478.73	1467.54	
Mo 202.032	1.9412	1.9223	1.5998	
Na 330.237	-233.057u	-222.904u	-196.769u	
Ni 231.604	7.5659	6.7632	7.6763	
Pb 220.353	42.6997	44.2039	43.3050	
Sb 206.834	-8.6362u	-1.1897u	-11.5934u	
Se 196.026	3.4777	1.9116	-2.7233u	
Sn 189.925	5.7887	2.9868	6.8330	
Sr 216.596	12.7740	12.8990	12.2186	
Ti 334.941	285.064	284.964	280.013	
Tl 190.794	2.0158u	2.3327u	7.2703	
V 292.401	103.637	103.842	101.954	
Zn 206.200	50.8117	52.1310	49.3301	

<b>Label</b>	<b>Sol'n Conc.</b>	<b>Units</b>	<b>SD</b>	<b>%RSD</b>	<b>Int. (c/s)</b>
Ag 328.068	0.0614	ppb	0.7917	1288.9	14.7598
Al 308.215	13927.0	ppb	185.490	1.3	119151
As 188.980	27.4289	ppb	3.9075	14.2	19.2130
B 249.678	-0.5288	ppb	0.3503	66.2	-67.3435
Ba 389.178	79.9296	ppb	0.6041	0.8	2479.40
Be 313.042	0.5139	ppb	0.0094	1.8	673.916
Ca 370.602	8737	ppb	108.4	1.2	47138
Cd 226.502	-0.2545	ppb	0.1037	40.7	408.301
Co 228.615	6.9889	ppb	0.0246	0.4	75.0508
Cr 267.716	81.1196	ppb	1.0859	1.3	6638.18
Cu 324.754	15.4890	ppb	0.5203	3.4	1296.11
Fe 271.441	57143.0	ppb	737.224	1.3	154447
K 766.491	430.562	ppb	4.9848	1.2	27145.1
Mg 279.078	1832.26	ppb	23.4780	1.3	9666.54
Mn 257.610	1471.17	ppb	6.5506	0.4	499086
Mo 202.032	1.8211	ppb	0.1919	10.5	40.3275
Na 330.237	-217.577	ppb	18.7213	8.6	141.049
Ni 231.604	7.3351	ppb	0.4984	6.8	35.2455
Pb 220.353	43.4029	ppb	0.7569	1.7	213.093
Sb 206.834	-7.1398	ppb	5.3609	75.1	28.3234
Se 196.026	0.8887	ppb	3.2246	362.8	-9.0499
Sn 189.925	5.2028	ppb	1.9889	38.2	-21.8467
Sr 216.596	12.6305	ppb	0.3622	2.9	502.559
Ti 334.941	283.347	ppb	2.8875	1.0	93653.4
Tl 190.794	3.8730	ppb	2.9465	76.1	-51.2687
V 292.401	103.144	ppb	1.0362	1.0	3920.09
Zn 206.200	50.7576	ppb	1.4012	2.8	153.307

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Cont Calib Verif (CCV)		8/20/2015, 12:17:06 PM		Rack 1, Tube 25		
Weight: 1		Volume: 1		Dilution: 1		
Label	Replicates	Concentration				
Ag 328.068	488.435	480.352	490.811			
Al 308.215	4831.38	4752.34	4800.04			
As 188.980	482.067	487.920	485.169			
B 249.678	462.467	456.503	461.751			
Ba 389.178	4870.64	4804.92	4844.38			
Be 313.042	478.359	470.325	475.491			
Ca 370.602	5142	5060	5088			
Cd 226.502	492.218	482.683	487.480			
Co 228.615	484.682	477.382	480.208			
Cr 267.716	4945.08	4883.69	4910.83			
Cu 324.754	4825.39	4718.29	4911.79			
Fe 271.441	4784.97	4695.33	4737.53			
K 766.491	9732.87	9550.02	9634.75			
Mg 279.078	4804.16	4729.76	4770.27			
Mn 257.610	4856.58	4787.54	4817.45			
Mo 202.032	491.497	482.039	485.879			
Na 330.237	6821.66	6706.13	6670.42			
Ni 231.604	2420.82	2377.12	2391.59			
Pb 220.353	493.587	480.805	489.214			
Sb 206.834	983.560	964.099	974.565			
Se 196.026	4849.89	4742.41	4820.09			
Sn 189.925	4753.46	4843.87	4797.92			
Sr 216.596	2432.77	2397.85	2410.97			
Ti 334.941	476.738	471.006	474.756			
Tl 190.794	4917.20	4809.96	4888.92			
V 292.401	4820.35	4749.18	4787.96			
Zn 206.200	2426.86	2410.70	2417.90			
Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)	QC Value
Ag 328.068	486.533	ppb	5.4828	1.1	46131.1	97.30656
Al 308.215	4794.58	ppb	39.7996	0.8	42132.8	95.89167
As 188.980	485.052	ppb	2.9284	0.6	560.978	97.01039
B 249.678	460.240	ppb	3.2567	0.7	8998.71	92.04803
Ba 389.178	4839.98	ppb	33.0818	0.7	159752	96.79963
Be 313.042	474.725	ppb	4.0718	0.9	1268288	94.94496
Ca 370.602	5097	ppb	41.68	0.8	28716	101.93198
Cd 226.502	487.460	ppb	4.7678	1.0	43138.7	97.49207
Co 228.615	480.757	ppb	3.6807	0.8	9431.12	96.15147
Cr 267.716	4913.20	ppb	30.7633	0.6	397440	98.26403
Cu 324.754	4818.49	ppb	96.9353	2.0	327738	96.36978
Fe 271.441	4739.28	ppb	44.8454	0.9	13129.9	94.78557
K 766.491	9639.21	ppb	91.5094	0.9	596398	96.39214
Mg 279.078	4768.06	ppb	37.2468	0.8	24962.6	95.36125
Mn 257.610	4820.52	ppb	34.6266	0.7	1634394	96.41044
Mo 202.032	486.472	ppb	4.7565	1.0	4428.13	97.29433
Na 330.237	6732.74	ppb	79.0527	1.2	739.862	89.76981Q
Ni 231.604	2396.51	ppb	22.2616	0.9	12844.5	95.86044
Pb 220.353	487.869	ppb	6.4964	1.3	1650.94	97.57374
Sb 206.834	974.075	ppb	9.7396	1.0	1729.32	97.40746
Se 196.026	4804.13	ppb	55.4907	1.2	3729.13	96.08258
Sn 189.925	4798.42	ppb	45.2074	0.9	7748.76	95.96836
Sr 216.596	2413.86	ppb	17.6342	0.7	56501.7	96.55455

E08192015.wvq. All Data Report 8/20/2015, 3:03:52 PM

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)	QC Value
Ti 334.941	474.166	ppb	2.9111	0.6	156710	94.83330
Tl 190.794	4872.03	ppb	55.5816	1.1	9000.00	97.44054
V 292.401	4785.83	ppb	35.6326	0.7	182878	95.71658
Zn 206.200	2418.48	ppb	8.0957	0.3	7218.82	96.73933

Cont Calib Blank (CCB) 8/20/2015, 12:20:50 PM

Weight: 1 Volume: 1

Rack 1, Tube 26

Dilution: 1

Label	Replicates	Concentration				
Ag 328.068	0.1133	0.3482	0.4078			
Al 308.215	-17.3788u	-19.1163u	-16.4508u			
As 188.980	-2.1614u	-2.6327u	-3.8747u			
B 249.678	5.2257	4.5822	4.2834			
Ba 389.178	2.4283	2.7131	2.1324			
Be 313.042	0.0417	0.0556	0.0502			
Ca 370.602	8.363	7.089	6.618			
Cd 226.502	0.5154	0.3913	0.4674			
Co 228.615	-0.1556u	0.3195	0.6159			
Cr 267.716	0.2393	0.1246	0.3071			
Cu 324.754	0.3960	1.1449	1.2691			
Fe 271.441	-6.5230u	-5.7245u	-1.6244u			
K 766.491	-0.2861u	0.5335	0.6439			
Mg 279.078	-1.7915u	-1.6980u	-0.9008u			
Mn 257.610	0.4457	0.4762	0.5828			
Mo 202.032	-0.0455u	0.2788	0.0419			
Na 330.237	-339.873u	-203.653u	-101.748u			
Ni 231.604	2.1830	1.7329	1.6819			
Pb 220.353	0.1362	-1.8855u	0.5108			
Sb 206.834	-6.3984u	-7.3209u	-5.0547u			
Se 196.026	1.6124	-2.2386u	7.8946			
Sn 189.925	3.6956	2.1140	1.0813			
Sr 216.596	-0.0753u	0.5804	0.6951			
Ti 334.941	0.1143	0.1515	0.1807			
Tl 190.794	3.6594	4.9148	1.0845			
V 292.401	0.8540	0.6819	1.0476			
Zn 206.200	-0.3628u	0.1095	-0.0219u			

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)	QC Value
Ag 328.068	0.2898	ppb	0.1557	53.7	39.0036	0.28976
Al 308.215	-17.6486	ppb	1.3531	7.7	541.311	-17.64864
As 188.980	-2.8896	ppb	0.8851	30.6	-15.9976	-2.88961
B 249.678	4.6971	ppb	0.4815	10.3	186.326	4.69710
Ba 389.178	2.4246	ppb	0.2904	12.0	-132.615	2.42462
Be 313.042	0.0492	ppb	0.0070	14.2	-580.020	0.04915
Ca 370.602	7.357	ppb	0.9028	12.3	5.900	7.35711
Cd 226.502	0.4581	ppb	0.0626	13.7	131.463	0.45806
Co 228.615	0.2599	ppb	0.3892	149.7	-66.2513	0.25992
Cr 267.716	0.2237	ppb	0.0923	41.3	61.4988	0.22365
Cu 324.754	0.9367	ppb	0.4723	50.4	285.352	0.93668
Fe 271.441	-4.6240	ppb	2.6282	56.8	142.813	-4.62395
K 766.491	0.2971	ppb	0.5081	171.0	547.315	0.29710
Mg 279.078	-1.4634	ppb	0.4895	33.4	102.036	-1.46344
Mn 257.610	0.5016	ppb	0.0720	14.3	207.014	0.50159
Mo 202.032	0.0918	ppb	0.1678	182.9	28.3579	0.09176

E08192015.wvq. All Data Report 8/20/2015, 3:03:52 PM

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)	QC Value
Na 330.237	-215.091	ppb	119.474	55.5	164.736	-215.09142
Ni 231.604	1.8659	ppb	0.2758	14.8	0.5215	1.86594
Pb 220.353	-0.4128	ppb	1.2890	312.2	61.1713	-0.41284
Sb 206.834	-6.2580	ppb	1.1396	18.2	29.6865	-6.25799
Se 196.026	2.4228	ppb	5.1150	211.1	-7.9937	2.42281
Sn 189.925	2.2969	ppb	1.3167	57.3	-26.5574	2.29694
Sr 216.596	0.4001	ppb	0.4157	103.9	68.1319	0.40006
Ti 334.941	0.1489	ppb	0.0333	22.4	54.2527	0.14885
Tl 190.794	3.2196	ppb	1.9527	60.7	-45.2453	3.21955
V 292.401	0.8612	ppb	0.1830	21.2	4.2635	0.86116
Zn 206.200	-0.0917	ppb	0.2438	265.8	1.3791	-0.09172

680-115692-a-25-b^10 (Samp) 8/20/2015, 12:24:34 PM

Rack 1, Tube 27

Weight: 1

Volume: 1

Dilution: 1

Label	Replicates	Concentration
Ag 328.068	-0.5857	-0.0844
Al 308.215	15781.8	15661.3
As 188.980	31.2471	31.4810
B 249.678	-1.1285u	-0.4418u
Ba 389.178	821.035	811.850
Be 313.042	2.2791	2.2586
Ca 370.602	13338	13266
Cd 226.502	0.1223	0.2155
Co 228.615	47.5713	47.5335
Cr 267.716	55.8304	55.7258
Cu 324.754	16.4844	16.1060
Fe 271.441	78371.8	77763.5
K 766.491	562.720	557.044
Mg 279.078	1949.45	1933.88
Mn 257.610	14047.2	13962.6
Mo 202.032	1.5374	1.4966
Na 330.237	-371.931u	-200.788u
Ni 231.604	18.4874	18.4527
Pb 220.353	84.1571	79.0386
Sb 206.834	-18.0985u	-9.9300u
Se 196.026	1.1957	-2.0584
Sn 189.925	5.8080	5.1783
Sr 216.596	31.3394	31.9819
Ti 334.941	296.297	293.978
Tl 190.794	5.8203	3.5925
V 292.401	118.497	117.114
Zn 206.200	118.626	116.972

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.4449	ppb	0.3147	70.7	34.3302
Al 308.215	15608.4	ppb	204.955	1.3	133455
As 188.980	28.3748	ppb	5.1789	18.3	20.0964
B 249.678	-0.4925	ppb	0.6122	124.3	-121.055
Ba 389.178	810.154	ppb	11.8212	1.5	26625.2
Be 313.042	2.2514	ppb	0.0319	1.4	5315.28
Ca 370.602	13220	ppb	146.5	1.1	72024
Cd 226.502	0.1104	ppb	0.1115	100.9	562.024
Co 228.615	47.4729	ppb	0.1389	0.3	874.536

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Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Cr 267.716	55.4245	ppb	0.6148	1.1	4658.31
Cu 324.754	16.2094	ppb	0.2406	1.5	1353.01
Fe 271.441	77527.8	ppb	983.303	1.3	209493
K 766.491	555.134	ppb	8.7002	1.6	34845.7
Mg 279.078	1930.11	ppb	21.4841	1.1	9681.33
Mn 257.610	13936.7	ppb	125.412	0.9	4725317
Mo 202.032	1.3817	ppb	0.2352	17.0	35.0603
Na 330.237	-262.913	ppb	94.7193	36.0	128.834
Ni 231.604	18.0698	ppb	0.6934	3.8	94.5851
Pb 220.353	80.2708	ppb	3.4399	4.3	341.439
Sb 206.834	-13.4974	ppb	4.1812	31.0	16.9506
Se 196.026	0.6988	ppb	2.5454	364.3	-4.5014
Sn 189.925	5.3014	ppb	0.4576	8.6	-21.6870
Sr 216.596	31.5621	ppb	0.3638	1.2	998.472
Ti 334.941	293.173	ppb	3.5953	1.2	96903.4
Tl 190.794	6.1027	ppb	2.6626	43.6	-39.2734
V 292.401	116.823	ppb	1.8378	1.6	4445.99
Zn 206.200	116.850	ppb	1.8404	1.6	351.859

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Weight: 1 Volume: 1

Rack 1, Tube 28

Dilution: 1

Label	Replicates	Concentration				
Ag 328.068	-0.8549u	0.0688	0.0174			
Al 308.215	18281.1	18082.7	17778.8			
As 188.980	20.6098	22.8634	15.9382			
B 249.678	0.0870u	0.6365u	1.3620u			
Ba 389.178	132.622	132.001	129.577			
Be 313.042	0.9425	0.9186	0.9116			
Ca 370.602	5329	5259	5185			
Cd 226.502	0.3480	0.2384	0.2151			
Co 228.615	14.5244	14.1767	14.2745			
Cr 267.716	57.5789	56.6752	55.8987			
Cu 324.754	18.9644	17.9044	18.2205			
Fe 271.441	40953.7	40529.9	39949.2			
K 766.491	484.548	480.743	472.229			
Mg 279.078	1742.39	1720.79	1704.76			
Mn 257.610	2045.40	2018.83	1996.89			
Mo 202.032	0.8955	1.5936	1.4666			
Na 330.237	-46.5003u	-184.308u	-151.889u			
Ni 231.604	12.3573	12.1113	11.0894			
Pb 220.353	87.0763	81.7195	81.4936			
Sb 206.834	-8.7012u	-7.7283u	-6.5042u			
Se 196.026	-4.4596u	1.7261	9.9819			
Sn 189.925	7.1693	6.8717	4.2769			
Sr 216.596	13.2147	13.1024	12.8292			
Ti 334.941	192.652	190.170	188.867			
Tl 190.794	4.6446	3.8264	0.5267u			
V 292.401	69.3379	68.3125	68.2091			
Zn 206.200	115.666	114.102	114.571			

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.2562	ppb	0.5191	202.6	-9.0880
Al 308.215	18047.5	ppb	253.005	14	154186

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Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
As 188.980	19.8038	ppb	3.5322	17.8	10.3842
B 249.678	0.6952	ppb	0.6395	92.0	0.8678
Ba 389.178	131.400	ppb	1.6089	1.2	4166.31
Be 313.042	0.9243	ppb	0.0162	1.8	1766.93
Ca 370.602	5257	ppb	72.20	1.4	28278
Cd 226.502	0.2672	ppb	0.0709	26.5	355.294
Co 228.615	14.3252	ppb	0.1793	1.3	217.218
Cr 267.716	56.7176	ppb	0.8409	1.5	4661.97
Cu 324.754	18.3631	ppb	0.5442	3.0	1485.28
Fe 271.441	40477.6	ppb	504.281	1.2	109450
K 766.491	479.173	ppb	6.3077	1.3	30150.1
Mg 279.078	1722.65	ppb	18.8801	1.1	9065.78
Mn 257.610	2020.37	ppb	24.2924	1.2	685202
Mo 202.032	1.3186	ppb	0.3719	28.2	36.8604
Na 330.237	-127.566	ppb	72.0517	56.5	155.313
Ni 231.604	11.8527	ppb	0.6723	5.7	57.8745
Pb 220.353	83.4298	ppb	3.1600	3.8	340.476
Sb 206.834	-7.6446	ppb	1.1009	14.4	27.4483
Se 196.026	2.4162	ppb	7.2454	299.9	-7.5211
Sn 189.925	6.1059	ppb	1.5910	26.1	-20.3825
Sr 216.596	13.0488	ppb	0.1983	1.5	468.916
Ti 334.941	190.563	ppb	1.9227	1.0	62989.4
Tl 190.794	2.9992	ppb	2.1800	72.7	-49.9024
V 292.401	68.6198	ppb	0.6240	0.9	2598.09
Zn 206.200	114.779	ppb	0.8026	0.7	345.638

680-115692-a-18-b^10 (Samp) 8/20/2015, 12:32:02 PM

Rack 1, Tube 29

Weight: 1

Volume: 1

Dilution: 1

Label	Replicates	Concentration	
Ag 328.068	-0.1273	0.0256	0.4779
Al 308.215	19353.9	19249.8	19010.9
As 188.980	15.0016	14.9584	14.5565
B 249.678	0.7781u	0.9408u	0.8997u
Ba 389.178	173.885	173.190	171.404
Be 313.042	0.6945	0.6810	0.6844
Ca 370.602	7088	7055	6977
Cd 226.502	-0.0457	-0.1006	-0.1754
Co 228.615	20.6400	21.4872	20.8530
Cr 267.716	102.897	102.578	101.507
Cu 324.754	117.050	111.488	115.120
Fe 271.441	56624.3	56287.1	55585.9
K 766.491	634.247	628.147	618.472
Mg 279.078	710.629	704.443	696.228
Mn 257.610	5201.43	5179.30	5108.66
Mo 202.032	7.1092	6.5532	6.4953
Na 330.237	-181.563u	-264.178u	-157.309u
Ni 231.604	28.8098	28.0814	27.6047
Pb 220.353	73.4183	70.9712	71.4157
Sb 206.834	-1.7866u	-8.4537u	-8.2446u
Se 196.026	8.0149	5.0978	4.4762
Sn 189.925	10.8464	10.5684	9.1428
Sr 216.596	23.4241	22.6417	22.7906
Ti 334.941	370.577	369.573	365.336

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Label	Replicates Concentration			
Tl 190.794	5.2150	4.3753	4.7501	
V 292.401	83.8569	83.1341	82.6331	
Zn 206.200	90.5294	89.3278	88.9269	

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	0.1254	ppb	0.3147	251.0	42.0063
Al 308.215	19204.9	ppb	175.831	0.9	164033
As 188.980	14.8388	ppb	0.2455	1.7	4.3247
B 249.678	0.8729	ppb	0.0846	9.7	-37.4833
Ba 389.178	172.826	ppb	1.2795	0.7	5545.40
Be 313.042	0.6866	ppb	0.0070	1.0	1131.34
Ca 370.602	7040	ppb	57.40	0.8	38047
Cd 226.502	-0.1072	ppb	0.0651	60.7	414.812
Co 228.615	20.9934	ppb	0.4407	2.1	354.717
Cr 267.716	102.327	ppb	0.7285	0.7	8380.88
Cu 324.754	114.553	ppb	2.8240	2.5	8030.52
Fe 271.441	56165.8	ppb	529.759	0.9	151810
K 766.491	626.956	ppb	7.9547	1.3	39285.6
Mg 279.078	703.767	ppb	7.2243	1.0	3586.84
Mn 257.610	5163.13	ppb	48.4549	0.9	1750736
Mo 202.032	6.7192	ppb	0.3390	5.0	84.8014
Na 330.237	-201.017	ppb	56.0277	27.9	142.791
Ni 231.604	28.1653	ppb	0.6069	2.2	146.831
Pb 220.353	71.9351	ppb	1.3036	1.8	306.900
Sb 206.834	-6.1617	ppb	3.7903	61.5	30.2264
Se 196.026	5.8630	ppb	1.8894	32.2	-3.7373
Sn 189.925	10.1859	ppb	0.9139	9.0	-13.7684
Sr 216.596	22.9521	ppb	0.4154	1.8	740.643
Ti 334.941	368.496	ppb	2.7817	0.8	121790
Tl 190.794	4.7801	ppb	0.4206	8.8	-46.2406
V 292.401	83.2080	ppb	0.6152	0.7	3154.50
Zn 206.200	89.5947	ppb	0.8339	0.9	269.681

680-115692-a-11-b^10 (Samp)    8/20/2015, 12:35:47 PM    Rack 1, Tube 30  
 Weight: 1    Volume: 1    Dilution: 1

Label	Replicates Concentration			
Ag 328.068	-0.5293u	-0.8222u	-1.0612u	
Al 308.215	22013.2	21917.0	21246.3	
As 188.980	16.1470	15.9042	15.0318	
B 249.678	1.9654u	1.3113u	1.3006u	
Ba 389.178	197.612	196.401	191.449	
Be 313.042	0.9154	0.9021	0.8833	
Ca 370.602	4175	4162	4019	
Cd 226.502	0.2346	0.1867	0.2052	
Co 228.615	19.3757	18.9655	19.2339	
Cr 267.716	36.9199	36.5615	35.2287	
Cu 324.754	23.1057	22.8017	22.5188	
Fe 271.441	33744.8	33617.1	32571.3	
K 766.491	757.806	756.227	727.463	
Mg 279.078	933.561	935.867	904.643	
Mn 257.610	3667.96	3654.63	3539.14	
Mo 202.032	2.4706	2.2570	1.6165	
Na 330.237	-125.910u	-100.905u	-195.270u	

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Label	Replicates	Concentration
Ni 231.604	15.8564	15.8285
Pb 220.353	127.133	125.004
Sb 206.834	0.9730	-8.9505u
Se 196.026	8.8632	-3.8007u
Sn 189.925	5.1606	0.5110
Sr 216.596	26.2676	25.4110
Ti 334.941	226.546	218.902
Tl 190.794	2.6447	0.8614u
V 292.401	65.2987	4.2820
Zn 206.200	109.625	62.6898
		105.270

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.8042	ppb	0.2664	33.1	-50.9163
Al 308.215	21725.5	ppb	417.817	1.9	185463
As 188.980	15.6943	ppb	0.5865	3.7	5.6043
B 249.678	1.5258	ppb	0.3808	25.0	36.0692
Ba 389.178	195.154	ppb	3.2650	1.7	6265.20
Be 313.042	0.9002	ppb	0.0161	1.8	1701.73
Ca 370.602	4119	ppb	86.33	2.1	22270
Cd 226.502	0.2088	ppb	0.0242	11.6	307.214
Co 228.615	19.1917	ppb	0.2083	1.1	314.745
Cr 267.716	36.2367	ppb	0.8912	2.5	3014.27
Cu 324.754	22.8088	ppb	0.2935	1.3	1784.72
Fe 271.441	33311.1	ppb	643.829	1.9	90100.9
K 766.491	747.165	ppb	17.0808	2.3	46716.6
Mg 279.078	924.690	ppb	17.3997	1.9	4807.13
Mn 257.610	3620.57	ppb	70.8436	2.0	1227668
Mo 202.032	2.1147	ppb	0.4445	21.0	44.5252
Na 330.237	-140.695	ppb	48.8891	34.7	157.156
Ni 231.604	15.4877	ppb	0.6145	4.0	76.6774
Pb 220.353	125.142	ppb	1.9259	1.5	475.261
Sb 206.834	-5.6480	ppb	5.7340	101.5	30.5577
Se 196.026	1.8579	ppb	6.4385	346.6	-7.2783
Sn 189.925	5.6905	ppb	1.1451	20.1	-21.0559
Sr 216.596	25.9082	ppb	0.4446	1.7	751.462
Ti 334.941	223.924	ppb	4.3499	1.9	74011.4
Tl 190.794	2.5960	ppb	1.7108	65.9	-48.1506
V 292.401	64.4482	ppb	1.5231	2.4	2439.66
Zn 206.200	107.738	ppb	2.2351	2.1	324.678

680-115692-a-2-b^10 (Samp)      8/20/2015, 12:39:31 PM      Rack 1, Tube 31  
 Weight: 1      Volume: 1      Dilution: 1

Label	Replicates	Concentration
Ag 328.068	-0.1968	-0.4624u
Al 308.215	16825.3	16601.1
As 188.980	29.9726	26.1154
B 249.678	-2.0185u	-1.9380u
Ba 389.178	640.284	619.602
Be 313.042	1.3283	1.2758
Ca 370.602	15006	14885
Cd 226.502	0.1806	0.0890
Co 228.615	26.0328	25.0549
Cr 267.716	78.4774	76.0202

E08192015.wvq. All Data Report 8/20/2015, 3:03:52 PM

Label	Replicates	Concentration				
Cu 324.754	19.2989	19.0985	18.8279			
Fe 271.441	70179.9	69418.4	68129.6			
K 766.491	315.373	311.030	305.338			
Mg 279.078	5880.29	5808.06	5705.88			
Mn 257.610	5809.71	5740.68	5664.49			
Mo 202.032	3.3242	3.1695	2.8732			
Na 330.237	-301.967u	-214.954u	-306.760u			
Ni 231.604	11.5466	10.4145	11.5475			
Pb 220.353	98.7309	98.9696	97.0524			
Sb 206.834	-8.9670u	-10.1297u	-10.0080u			
Se 196.026	1.4490	1.9510	0.7472			
Sn 189.925	6.8595	4.6900	6.3876			
Sr 216.596	20.2939	19.9016	19.4645			
Ti 334.941	195.588	194.485	190.674			
Tl 190.794	6.6356	5.7356	2.4179u			
V 292.401	111.997	111.040	108.662			
Zn 206.200	90.8344	90.9056	88.6879			

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.4089	ppb	0.1910	46.7	-7.7832
Al 308.215	16563.3	ppb	282.769	1.7	141574
As 188.980	28.8760	ppb	2.4075	8.3	20.7845
B 249.678	-1.8220	ppb	0.2736	15.0	-124.573
Ba 389.178	630.727	ppb	10.4299	1.7	20699.1
Be 313.042	1.3024	ppb	0.0263	2.0	2782.42
Ca 370.602	14837	ppb	197.5	1.3	80665
Cd 226.502	0.1156	ppb	0.0566	49.0	513.520
Co 228.615	25.5381	ppb	0.4890	1.9	437.775
Cr 267.716	77.3103	ppb	1.2332	1.6	6365.51
Cu 324.754	19.0751	ppb	0.2364	1.2	1544.66
Fe 271.441	69242.6	ppb	1036.38	1.5	187119
K 766.491	310.580	ppb	5.0325	1.6	19728.2
Mg 279.078	5798.08	ppb	87.6357	1.5	30328.6
Mn 257.610	5738.29	ppb	72.6383	1.3	1945852
Mo 202.032	3.1223	ppb	0.2291	7.3	51.3566
Na 330.237	-274.560	ppb	51.6757	18.8	131.302
Ni 231.604	11.1695	ppb	0.6539	5.9	56.8797
Pb 220.353	98.2510	ppb	1.0449	1.1	395.075
Sb 206.834	-9.7016	ppb	0.6390	6.6	23.7426
Se 196.026	1.3824	ppb	0.6047	43.7	-7.0978
Sn 189.925	5.9790	ppb	1.1410	19.1	-20.5884
Sr 216.596	19.8867	ppb	0.4149	2.1	703.698
Ti 334.941	193.582	ppb	2.5785	1.3	63998.9
Tl 190.794	4.9297	ppb	2.2213	45.1	-47.3814
V 292.401	110.567	ppb	1.7170	1.6	4203.46
Zn 206.200	90.1426	ppb	1.2603	1.4	271.530

680-115692-a-9-b^10 (Samp)    8/20/2015, 12:43:16 PM    Rack 1, Tube 32  
 Weight: 1    Volume: 1    Dilution: 1

Label	Replicates	Concentration				
Ag 328.068	-0.3522u	0.4967	0.3498			
Al 308.215	16445.0	16240.2	15945.1			
As 188.980	6.7644	5.8315	3.7707			

Label	Replicates	Concentration			
B 249.678	0.9083u	0.5010u	1.3414u		
Ba 389.178	97.9441	96.5485	93.7836		
Be 313.042	1.0402	1.0171	1.0087		
Ca 370.602	6752	6676	6560		
Cd 226.502	0.5957	0.5030	0.4881		
Co 228.615	7.2128	7.5646	7.0537		
Cr 267.716	38.2491	37.7901	37.1419		
Cu 324.754	15.8229	16.6592	15.6142		
Fe 271.441	23595.9	23296.8	22855.6		
K 766.491	557.212	552.846	542.249		
Mg 279.078	1684.13	1657.81	1625.98		
Mn 257.610	732.768	724.326	711.009		
Mo 202.032	1.6083	1.6336	1.1325		
Na 330.237	2.6400u	-71.0763u	-191.588u		
Ni 231.604	10.4057	11.0073	10.5444		
Pb 220.353	76.9829	77.8883	76.1535		
Sb 206.834	-6.5584u	-6.7066u	-11.2348u		
Se 196.026	-0.7538u	7.1035	1.4006		
Sn 189.925	5.5977	7.3335	7.4530		
Sr 216.596	26.0261	25.3272	24.7309		
Ti 334.941	107.510	105.965	104.109		
Tl 190.794	4.1025	-1.0606u	1.1937u		
V 292.401	42.9723	42.1794	41.5496		
Zn 206.200	106.673	106.646	103.833		

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	0.1648	ppb	0.4537	275.4	26.0954
Al 308.215	16210.1	ppb	251.284	1.6	138554
As 188.980	5.4555	ppb	1.5319	28.1	-6.3936
B 249.678	0.9169	ppb	0.4203	45.8	51.1572
Ba 389.178	96.0921	ppb	2.1175	2.2	2985.43
Be 313.042	1.0220	ppb	0.0163	1.6	2027.30
Ca 370.602	6663	ppb	96.33	1.4	36319
Cd 226.502	0.5289	ppb	0.0583	11.0	275.975
Co 228.615	7.2771	ppb	0.2614	3.6	75.4360
Cr 267.716	37.7270	ppb	0.5563	1.5	3109.63
Cu 324.754	16.0321	ppb	0.5530	3.4	1320.31
Fe 271.441	23249.4	ppb	372.429	1.6	62931.6
K 766.491	550.769	ppb	7.6947	1.4	34575.9
Mg 279.078	1655.97	ppb	29.1208	1.8	8768.70
Mn 257.610	722.701	ppb	10.9703	1.5	245179
Mo 202.032	1.4582	ppb	0.2823	19.4	39.2343
Na 330.237	-86.6747	ppb	98.0490	113.1	165.799
Ni 231.604	10.6525	ppb	0.3150	3.0	49.8360
Pb 220.353	77.0082	ppb	0.8677	1.1	316.298
Sb 206.834	-8.1666	ppb	2.6582	32.5	26.6284
Se 196.026	2.5834	ppb	4.0600	157.2	-7.7649
Sn 189.925	6.7947	ppb	1.0384	15.3	-19.2658
Sr 216.596	25.3614	ppb	0.6482	2.6	712.836
Ti 334.941	105.861	ppb	1.7025	1.6	34995.9
Tl 190.794	1.4119	ppb	2.5885	183.3	-51.4156
V 292.401	42.2338	ppb	0.7129	1.7	1587.53
Zn 206.200	105.717	ppb	1.6316	1.5	318.602

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680-115692-a-3-b^10 (Samp)		8/20/2015, 12:47:02 PM		Rack 1, Tube 33	
Weight: 1	Volume: 1	Dilution: 1			
Label	Replicates	Concentration			
Ag 328.068	-0.7273u	-0.1273u	0.1064		
Al 308.215	16066.6	15734.8	15349.4		
As 188.980	15.2222	12.7600	16.2031		
B 249.678	0.1519u	-0.3877u	-0.0175u		
Ba 389.178	62.1693	62.3787	60.1238		
Be 313.042	0.5417	0.5272	0.5152		
Ca 370.602	6656	6533	6385		
Cd 226.502	0.1372	-0.0136	-0.0504		
Co 228.615	8.7939	8.0483	7.5972		
Cr 267.716	55.9366	54.7935	53.5131		
Cu 324.754	13.9723	12.8944	13.3430		
Fe 271.441	41411.8	40622.4	39687.3		
K 766.491	326.932	321.739	314.521		
Mg 279.078	1932.53	1892.21	1847.24		
Mn 257.610	1248.90	1225.31	1196.14		
Mo 202.032	1.7347	1.8658	1.5864		
Na 330.237	-22.9070u	-345.886u	-286.714u		
Ni 231.604	9.5237	8.6741	9.2294		
Pb 220.353	25.0723	25.2990	23.9201		
Sb 206.834	-6.6383u	-7.0486u	-9.0821u		
Se 196.026	4.7362	1.3252	10.8548		
Sn 189.925	4.0798	4.1714	2.6329		
Sr 216.596	11.5095	11.1110	10.7818		
Ti 334.941	190.714	187.774	183.210		
Tl 190.794	5.9972	4.7649	2.0488u		
V 292.401	74.8971	73.7218	71.5853		
Zn 206.200	35.7810	33.9186	35.1797		

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.2494	ppb	0.4300	172.4	-13.0094
Al 308.215	15717.0	ppb	358.942	2.3	134367
As 188.980	14.7284	ppb	1.7738	12.0	4.3777
B 249.678	-0.0844	ppb	0.2759	326.9	-14.4418
Ba 389.178	61.5573	ppb	1.2458	2.0	1858.95
Be 313.042	0.5281	ppb	0.0133	2.5	709.066
Ca 370.602	6525	ppb	135.8	2.1	35232
Cd 226.502	0.0244	ppb	0.0994	407.5	334.375
Co 228.615	8.1465	ppb	0.6044	7.4	94.9866
Cr 267.716	54.7478	ppb	1.2124	2.2	4496.72
Cu 324.754	13.4032	ppb	0.5415	4.0	1148.09
Fe 271.441	40573.8	ppb	863.239	2.1	109709
K 766.491	321.064	ppb	6.2329	1.9	20376.2
Mg 279.078	1890.66	ppb	42.6655	2.3	9981.98
Mn 257.610	1223.45	ppb	26.4287	2.2	415029
Mo 202.032	1.7290	ppb	0.1398	8.1	40.5670
Na 330.237	-218.502	ppb	171.955	78.7	147.789
Ni 231.604	9.1424	ppb	0.4314	4.7	43.3674
Pb 220.353	24.7638	ppb	0.7394	3.0	149.683
Sb 206.834	-7.5896	ppb	1.3087	17.2	27.4981
Se 196.026	5.6387	ppb	4.8285	85.6	-5.3252
Sn 189.925	3.6281	ppb	0.8630	23.8	-24.3996
Sr 216.596	11.1341	ppb	0.3644	3.3	424.431

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Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ti 334.941	187.233	ppb	3.7812	2.0	61889.1
Tl 190.794	4.2703	ppb	2.0202	47.3	-48.2632
V 292.401	73.4014	ppb	1.6790	2.3	2781.32
Zn 206.200	34.9598	ppb	0.9505	2.7	106.115

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Rack 1, Tube 34

**Weight:** 1

Volume: 1

**Dilution: 1**

Label	Replicates	Concentration
Ag 328.068	-0.4162u	-0.9108u
Al 308.215	16530.0	16401.0
As 188.980	13.0437	13.0149
B 249.678	0.2793u	0.3847u
Ba 389.178	155.903	154.809
Be 313.042	0.6465	0.6430
Ca 370.602	4164	4130
Cd 226.502	0.2422	0.2782
Co 228.615	13.2424	12.8318
Cr 267.716	66.9122	65.9228
Cu 324.754	17.0917	16.9503
Fe 271.441	31467.4	31180.8
K 766.491	509.222	505.502
Mg 279.078	722.611	711.741
Mn 257.610	1964.26	1947.51
Mo 202.032	1.4165	1.2014
Na 330.237	-266.870u	-211.547u
Ni 231.604	13.6127	11.1409
Pb 220.353	100.601	97.2365
Sb 206.834	-7.8205u	-9.2803u
Se 196.026	-1.2445u	-0.1924
Sn 189.925	6.7044	3.9050
Sr 216.596	15.0655	14.6312
Ti 334.941	182.066	180.886
Tl 190.794	2.1076	4.4019
V 292.401	51.1289	50.5032
Zn 206.200	95.0121	92.4311

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.4802	ppb	0.4025	83.8	-29.0941
Al 308.215	16399.5	ppb	131.257	0.8	140167
As 188.980	12.2131	ppb	1.4138	11.6	1.5102
B 249.678	0.1312	ppb	0.3517	268.1	14.7512
Ba 389.178	154.556	ppb	1.4902	1.0	4921.46
Be 313.042	0.6375	ppb	0.0127	2.0	998.524
Ca 370.602	4129	ppb	35.45	0.9	22258
Cd 226.502	0.2712	ppb	0.0262	9.7	300.298
Co 228.615	13.1455	ppb	0.2782	2.1	193.956
Cr 267.716	66.0141	ppb	0.8560	1.3	5410.02
Cu 324.754	17.1152	ppb	0.1778	1.0	1396.99
Fe 271.441	31199.0	ppb	259.756	0.8	84397.1
K 766.491	505.100	ppb	4.3365	0.9	31752.8
Mg 279.078	717.672	ppb	5.5027	0.8	3790.30
Mn 257.610	1946.82	ppb	17.7933	0.9	660211
Mo 202.032	1.3569	ppb	0.1359	10.0	37.8105

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Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Na 330.237	-168.791	ppb	125.063	74.1	155.697
Ni 231.604	12.0987	ppb	1.3264	11.0	58.3199
Pb 220.353	99.3636	ppb	1.8503	1.9	390.696
Sb 206.834	-7.8911	ppb	1.3553	17.2	27.3870
Se 196.026	-0.2291	ppb	0.9976	435.3	-9.5370
Sn 189.925	5.2054	ppb	1.4102	27.1	-21.8424
Sr 216.596	14.7036	ppb	0.3317	2.3	483.642
Ti 334.941	180.660	ppb	1.5314	0.8	59713.5
Tl 190.794	4.2920	ppb	2.1316	49.7	-46.1925
V 292.401	50.4344	ppb	0.7313	1.4	1900.73
Zn 206.200	93.4802	ppb	1.3566	1.5	281.642

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Rack 1, Tube 35

Weight: 1

Volume: 1

Dilution: 1

Label	Replicates	Concentration			
Ag 328.068	0.0947	-0.5402u	-0.1670u		
Al 308.215	15536.2	15080.7	14607.3		
As 188.980	25.7182	24.0087	21.8547		
B 249.678	0.7686u	0.4491u	0.6751u		
Ba 389.178	374.124	364.712	351.565		
Be 313.042	1.8055	1.7577	1.7148		
Ca 370.602	16934	16512	16040		
Cd 226.502	0.1807	0.1719	-0.0308		
Co 228.615	18.8845	17.3315	17.4299		
Cr 267.716	61.6095	60.2759	58.1580		
Cu 324.754	19.4483	19.6813	18.4414		
Fe 271.441	71880.2	69812.0	67615.2		
K 766.491	572.589	557.182	538.968		
Mg 279.078	1694.81	1650.49	1599.28		
Mn 257.610	4128.11	4015.39	3889.09		
Mo 202.032	0.7669	1.1140	1.8173		
Na 330.237	-91.4537u	-270.238u	-375.282u		
Ni 231.604	10.5452	11.0346	9.6505		
Pb 220.353	79.1943	75.5472	73.0460		
Sb 206.834	-6.8176u	-10.1502u	-5.0402u		
Se 196.026	2.1085	1.9890	-0.3176		
Sn 189.925	3.6048	6.6251	5.8206		
Sr 216.596	33.2889	32.4659	30.7039		
Ti 334.941	470.484	457.555	443.883		
Tl 190.794	4.6197	5.2763	5.1423		
V 292.401	110.092	106.194	103.643		
Zn 206.200	114.096	111.533	107.441		

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.2042	ppb	0.3191	156.3	1.0952
Al 308.215	15074.7	ppb	464.433	3.1	128914
As 188.980	23.8605	ppb	1.9360	8.1	14.8452
B 249.678	0.6309	ppb	0.1643	26.0	-78.5370
Ba 389.178	363.467	ppb	11.3306	3.1	11858.2
Be 313.042	1.7593	ppb	0.0454	2.6	4005.18
Ca 370.602	16495	ppb	447.0	2.7	89953
Cd 226.502	0.1073	ppb	0.1196	111.5	514.572
Co 228.615	17.8820	ppb	0.8696	4.9	296.146

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Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Cr 267.716	60.0144	ppb	1.7405	2.9	4954.90
Cu 324.754	19.1903	ppb	0.6590	3.4	1552.68
Fe 271.441	69769.2	ppb	2132.80	3.1	188540
K 766.491	556.246	ppb	16.8299	3.0	34914.5
Mg 279.078	1648.19	ppb	47.8074	2.9	8597.31
Mn 257.610	4010.86	ppb	119.575	3.0	1360162
Mo 202.032	1.2327	ppb	0.5352	43.4	34.2088
Na 330.237	-245.658	ppb	143.502	58.4	133.456
Ni 231.604	10.4101	ppb	0.7019	6.7	52.8842
Pb 220.353	75.9292	ppb	3.0919	4.1	321.693
Sb 206.834	-7.3360	ppb	2.5941	35.4	27.4044
Se 196.026	1.2600	ppb	1.3675	108.5	-7.8695
Sn 189.925	5.3502	ppb	1.5641	29.2	-21.6079
Sr 216.596	32.1529	ppb	1.3206	4.1	992.546
Ti 334.941	457.307	ppb	13.3024	2.9	151143
Tl 190.794	5.0127	ppb	0.3469	6.9	-48.8412
V 292.401	106.643	ppb	3.2475	3.0	4057.45
Zn 206.200	111.023	ppb	3.3564	3.0	334.337

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Rack 1, Tube 36

**Weight:** 1

Volume: 1

**Dilution: 1**

Label	Replicates	Concentration	
Ag 328.068	0.3615	0.1151	-0.2524u
Al 308.215	13702.4	13396.4	13130.9
As 188.980	22.2805	17.9362	17.9656
B 249.678	1.7753u	2.4765u	2.4262u
Ba 389.178	82.7651	79.8263	79.1546
Be 313.042	0.6828	0.6649	0.6553
Ca 370.602	14544	14248	13988
Cd 226.502	0.1730	0.1661	0.1557
Co 228.615	9.3617	8.0880	7.7805
Cr 267.716	65.1519	63.8557	62.5975
Cu 324.754	35.3877	35.2807	31.9769
Fe 271.441	38293.5	37488.2	36800.7
K 766.491	377.968	369.769	361.394
Mg 279.078	2384.26	2329.78	2290.61
Mn 257.610	2166.86	2112.88	2079.86
Mo 202.032	3.2467	2.9230	2.6792
Na 330.237	58.3941u	-49.1530u	-99.7643u
Ni 231.604	13.0302	13.2665	14.2512
Pb 220.353	53.8589	51.0648	50.5133
Sb 206.834	-8.7846u	-9.2593u	-10.1340u
Se 196.026	-1.9962u	7.6801	-5.5011u
Sn 189.925	5.4696	4.0190	2.9046
Sr 216.596	19.7475	19.5709	18.5336
Ti 334.941	179.053	175.582	172.591
Tl 190.794	4.2523	-0.3538u	5.3903
V 292.401	57.9155	56.3681	55.1571
Zn 206.200	97.4329	94.6728	91.6499

<b>Label</b>	<b>Sol'n Conc.</b>	<b>Units</b>	<b>SD</b>	<b>%RSD</b>	<b>Int. (c/s)</b>
Ag 328.068	0.0747	ppb	0.3089	413.3	23.1221
Al 308.215	13409.9	ppb	285.980	2.1	114745

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<b>Label</b>	<b>Sol'n Conc.</b>	<b>Units</b>	<b>SD</b>	<b>%RSD</b>	<b>Int. (c/s)</b>
As 188.980	19.3941	ppb	2.4998	12.9	9.9327
B 249.678	2.2260	ppb	0.3912	17.6	38.3633
Ba 389.178	80.5820	ppb	1.9202	2.4	2486.14
Be 313.042	0.6677	ppb	0.0140	2.1	1083.55
Ca 370.602	14260	ppb	278.3	2.0	78057
Cd 226.502	0.1649	ppb	0.0087	5.3	328.650
Co 228.615	8.4100	ppb	0.8384	10.0	99.8559
Cr 267.716	63.8684	ppb	1.2772	2.0	5240.04
Cu 324.754	34.2151	ppb	1.9391	5.7	2561.95
Fe 271.441	37527.5	ppb	747.187	2.0	101483
K 766.491	369.710	ppb	8.2872	2.2	23383.4
Mg 279.078	2334.88	ppb	47.0357	2.0	12281.6
Mn 257.610	2119.87	ppb	43.9166	2.1	718927
Mo 202.032	2.9496	ppb	0.2847	9.7	51.8413
Na 330.237	-30.1743	ppb	80.7692	267.7	164.689
Ni 231.604	13.5160	ppb	0.6476	4.8	66.5383
Pb 220.353	51.8124	ppb	1.7937	3.5	237.478
Sb 206.834	-9.3926	ppb	0.6845	7.3	24.6959
Se 196.026	0.0609	ppb	6.8272	11202.2	-9.2925
Sn 189.925	4.1311	ppb	1.2861	31.1	-23.5840
Sr 216.596	19.2840	ppb	0.6558	3.4	607.252
Ti 334.941	175.742	ppb	3.2338	1.8	58092.2
Tl 190.794	3.0963	ppb	3.0415	98.2	-49.2450
V 292.401	56.4802	ppb	1.3826	2.4	2132.05
Zn 206.200	94.5852	ppb	2.8925	3.1	284.976

Cont Calib Verif (CCV)      **8/20/2015, 1:02:06 PM**      Rack 1, Tube 37  
 Weight: 1      Volume: 1      Dilution: 1

<b>Label</b>	<b>Replicates</b>	<b>Concentration</b>
Ag 328.068	493.065	482.327
Al 308.215	4742.74	4725.62
As 188.980	490.644	490.402
B 249.678	460.331	456.924
Ba 389.178	4782.90	4769.79
Be 313.042	472.971	470.908
Ca 370.602	5056	5037
Cd 226.502	485.306	482.791
Co 228.615	478.026	474.666
Cr 267.716	4870.39	4839.25
Cu 324.754	4886.63	4960.10
Fe 271.441	4702.93	4683.90
K 766.491	9489.61	9436.90
Mg 279.078	4729.42	4701.58
Mn 257.610	4798.15	4756.71
Mo 202.032	482.615	479.595
Na 330.237	6479.66	6448.62
Ni 231.604	2379.63	2365.23
Pb 220.353	483.675	480.504
Sb 206.834	983.820	970.863
Se 196.026	4821.56	4748.27
Sn 189.925	4818.10	4841.96
Sr 216.596	2395.97	2375.43
Ti 334.941	468.551	466.519

E08192015.wvq. All Data Report 8/20/2015, 3:03:52 PM

Label	Replicates Concentration					
Tl 190.794	4834.01	4799.38	4821.85			
V 292.401	4753.39	4731.43	4747.69			
Zn 206.200	2413.07	2400.38	2409.57			

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)	QC Value
Ag 328.068	489.249	ppb	6.0048	1.2	46389.4	97.84983
Al 308.215	4736.81	ppb	9.7011	0.2	41635.7	94.73626
As 188.980	487.648	ppb	4.9815	1.0	564.053	97.52953
B 249.678	459.682	ppb	2.4977	0.5	8987.99	91.93643
Ba 389.178	4781.14	ppb	10.5802	0.2	157807	95.62273
Be 313.042	472.219	ppb	1.1398	0.2	1261590	94.44387
Ca 370.602	5047	ppb	9.682	0.2	28438	100.94973
Cd 226.502	484.091	ppb	1.2593	0.3	42841.2	96.81826
Co 228.615	476.547	ppb	1.7154	0.4	9347.79	95.30930
Cr 267.716	4857.33	ppb	16.1686	0.3	392921	97.14670
Cu 324.754	4927.94	ppb	37.5768	0.8	335178	98.55874
Fe 271.441	4698.91	ppb	13.4664	0.3	13019.3	93.97827
K 766.491	9472.55	ppb	30.8857	0.3	586095	94.72549
Mg 279.078	4717.05	ppb	14.1792	0.3	24696.6	94.34109
Mn 257.610	4775.99	ppb	20.8711	0.4	1619296	95.51984
Mo 202.032	481.100	ppb	1.5104	0.3	4379.52	96.21992
Na 330.237	6564.18	ppb	173.979	2.7	725.814	87.52244Q
Ni 231.604	2372.71	ppb	7.2171	0.3	12716.9	94.90825
Pb 220.353	482.133	ppb	1.5874	0.3	1632.28	96.42664
Sb 206.834	978.331	ppb	6.7015	0.7	1735.70	97.83312
Se 196.026	4781.30	ppb	37.1738	0.8	3711.36	95.62608
Sn 189.925	4822.43	ppb	17.7585	0.4	7787.69	96.44865
Sr 216.596	2386.59	ppb	10.3885	0.4	55863.6	95.46347
Ti 334.941	467.775	ppb	1.0976	0.2	154598	93.55495
Tl 190.794	4818.42	ppb	17.5696	0.4	8900.44	96.36832
V 292.401	4744.17	ppb	11.3976	0.2	181286	94.88338
Zn 206.200	2407.67	ppb	6.5562	0.3	7186.78	96.30695

Cont Calib Blank (CCB)      8/20/2015, 1:05:50 PM      Rack 1, Tube 38  
 Weight: 1      Volume: 1      Dilution: 1

Label	Replicates Concentration		
Ag 328.068	-0.0896u	0.3713	-0.0010u
Al 308.215	-19.1584u	-18.6175u	-18.2332u
As 188.980	-0.8180u	1.0263	-1.7282u
B 249.678	5.3400	4.5685	3.9900
Ba 389.178	2.0778	2.2075	1.8495
Be 313.042	0.0468	0.0352	0.0282
Ca 370.602	10.47	11.59	6.683
Cd 226.502	0.3992	0.4645	0.4177
Co 228.615	0.6980	0.9455	0.3265
Cr 267.716	0.0359	-0.0979u	0.0703
Cu 324.754	1.3002	1.2385	0.7270
Fe 271.441	-3.4606u	-8.7730u	0.3320
K 766.491	-1.0507u	-0.6238u	-0.3872u
Mg 279.078	-3.6876u	-2.5916u	-6.5744u
Mn 257.610	0.3266	0.3009	0.3516
Mo 202.032	0.4071	0.2315	0.3889
Na 330.237	-160.068u	-87.9089u	-312.206u

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Label	Replicates Concentration		
Ni 231.604	1.8552	1.7625	2.9242
Pb 220.353	-2.8658u	-3.4901u	-0.3888u
Sb 206.834	-3.1727u	-4.9040u	-3.3097u
Se 196.026	5.5124	-4.1196u	-2.8713u
Sn 189.925	1.5427	5.1286	1.7258
Sr 216.596	0.1141	0.0465	0.2734
Ti 334.941	0.1627	0.1220	0.0536
Tl 190.794	4.3658	2.4268	0.5017
V 292.401	0.5482	0.6921	0.7897
Zn 206.200	1.0361	-0.2428u	0.3476

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)	QC Value
Ag 328.068	0.0936	ppb	0.2446	261.4	20.3856	0.09356
Al 308.215	-18.6697	ppb	0.4648	2.5	532.619	-18.66971
As 188.980	-0.5067	ppb	1.4034	277.0	-13.1782	-0.50665
B 249.678	4.6328	ppb	0.6773	14.6	185.089	4.63281
Ba 389.178	2.0449	ppb	0.1813	8.9	-145.166	2.04491
Be 313.042	0.0368	ppb	0.0094	25.5	-613.241	0.03676
Ca 370.602	9.579	ppb	2.570	26.8	18.12	9.57948
Cd 226.502	0.4271	ppb	0.0336	7.9	128.725	0.42714
Co 228.615	0.6567	ppb	0.3116	47.4	-58.4352	0.65666
Cr 267.716	0.0028	ppb	0.0889	3187.4	43.6351	0.00279
Cu 324.754	1.0886	ppb	0.3147	28.9	295.691	1.08856
Fe 271.441	-3.9672	ppb	4.5736	115.3	144.631	-3.96720
K 766.491	-0.6872	ppb	0.3363	48.9	486.467	-0.68723
Mg 279.078	-4.2845	ppb	2.0574	48.0	87.2231	-4.28451
Mn 257.610	0.3264	ppb	0.0254	7.8	147.580	0.32636
Mo 202.032	0.3425	ppb	0.0966	28.2	30.6301	0.34250
Na 330.237	-186.727	ppb	114.501	61.3	167.105	-186.72743
Ni 231.604	2.1806	ppb	0.6456	29.6	2.2083	2.18065
Pb 220.353	-2.2482	ppb	1.6403	73.0	55.2084	-2.24823
Sb 206.834	-3.7955	ppb	0.9624	25.4	33.7595	-3.79548
Se 196.026	-0.4929	ppb	5.2380	1062.8	-10.2619	-0.49286
Sn 189.925	2.7990	ppb	2.0196	72.2	-25.7434	2.79904
Sr 216.596	0.1447	ppb	0.1165	80.5	62.1403	0.14466
Ti 334.941	0.1128	ppb	0.0552	48.9	42.3209	0.11277
Tl 190.794	2.4315	ppb	1.9321	79.5	-46.7064	2.43145
V 292.401	0.6767	ppb	0.1215	18.0	-2.8764	0.67666
Zn 206.200	0.3803	ppb	0.6400	168.3	2.7982	0.38030

680-115692-a-63-b^10 (Samp) 8/20/2015, 1:09:34 PM Rack 1, Tube 39

Weight: 1 Volume: 1 Dilution: 1

Label	Replicates Concentration		
Ag 328.068	-0.5135u	-0.5967u	-0.4187u
Al 308.215	18296.9	17954.1	17704.4
As 188.980	66.2979	68.5537	63.6563
B 249.678	-7.0108u	-6.0427u	-5.5362u
Ba 389.178	855.637	837.859	825.246
Be 313.042	4.0816	4.0091	3.9583
Ca 370.602	1907	1893	1879
Cd 226.502	-0.9852	-1.5858	-1.6092
Co 228.615	69.9662	68.6781	66.7651
Cr 267.716	94.7408	93.5020	92.1369

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Label	Replicates	Concentration			
Cu 324.754	9.9260	10.7332	9.0372		
Fe 271.441	177861	179234	176947		
K 766.491	107.074	104.878	103.038		
Mg 279.078	1094.25	1079.81	1060.73		
Mn 257.610	10346.3	10160.8	10048.8		
Mo 202.032	1.8178	1.8604	1.5183		
Na 330.237	-328.646u	-259.455u	-244.316u		
Ni 231.604	20.5334	20.1661	18.9641		
Pb 220.353	80.4581	79.0075	79.6164		
Sb 206.834	-14.2888u	-10.3262u	-11.0314u		
Se 196.026	11.9158	5.2857	5.1154		
Sn 189.925	5.4514	1.5966	2.4610		
Sr 216.596	-2.5280	-2.9590	-3.2633		
Ti 334.941	105.866	103.293	102.202		
Tl 190.794	8.6514u	11.8280	8.4251u		
V 292.401	220.443	215.828	212.584		
Zn 206.200	112.913	112.191	111.842		

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.5096	ppb	0.0891	17.5	-11.1444
Al 308.215	17985.2	ppb	297.470	1.7	153693
As 188.980	66.1693	ppb	2.4512	3.7	63.6519
B 249.678	-6.1966	ppb	0.7492	12.1	-499.612
Ba 389.178	839.581	ppb	15.2686	1.8	27677.3
Be 313.042	4.0164	ppb	0.0619	1.5	10034.3
Ca 370.602	1893	ppb	14.00	0.7	6690
Cd 226.502	-1.3934	ppb	0.3537	25.4	1029.41
Co 228.615	68.4698	ppb	1.6107	2.4	1278.80
Cr 267.716	93.4599	ppb	1.3025	1.4	7745.28
Cu 324.754	9.8988	ppb	0.8484	8.6	962.787
Fe 271.441	178014	ppb	1151.07	0.6	480814
K 766.491	104.997	ppb	2.0201	1.9	7019.55
Mg 279.078	1078.26	ppb	16.8106	1.6	5354.35
Mn 257.610	10185.3	ppb	150.264	1.5	3453944
Mo 202.032	1.7322	ppb	0.1864	10.8	31.8492
Na 330.237	-277.472	ppb	44.9594	16.2	86.5222
Ni 231.604	19.8879	ppb	0.8208	4.1	113.755
Pb 220.353	79.6940	ppb	0.7284	0.9	355.067
Sb 206.834	-11.8821	ppb	2.1138	17.8	18.1483
Se 196.026	7.4389	ppb	3.8780	52.1	-1.4842
Sn 189.925	3.1697	ppb	2.0228	63.8	-25.1433
Sr 216.596	-2.9168	ppb	0.3695	12.7	450.916
Ti 334.941	103.787	ppb	1.8815	1.8	34329.8
Tl 190.794	9.6348	ppb	1.9027	19.7	-51.1052
V 292.401	216.285	ppb	3.9496	1.8	8251.98
Zn 206.200	112.315	ppb	0.5460	0.5	337.931

680-115692-a-38-b^10 (Samp)    8/20/2015, 1:13:18 PM    Rack 1, Tube 40  
 Weight: 1    Volume: 1    Dilution: 1

Label	Replicates	Concentration			
Ag 328.068	-0.2505u	-0.2875u	-0.0283		
Al 308.215	16601.2	16063.6	15687.2		
As 188.980	22.5668	21.5320	18.9759		

<b>Label</b>	<b>Replicates Concentration</b>			
B 249.678	2.5924u	2.9843u	2.5920u	
Ba 389.178	251.008	241.854	236.994	
Be 313.042	1.5153	1.4735	1.4335	
Ca 370.602	20414	19731	19235	
Cd 226.502	0.2907	0.2361	0.0613	
Co 228.615	16.1483	14.9271	14.3090	
Cr 267.716	54.6261	52.6542	51.5137	
Cu 324.754	18.7507	18.5460	17.3461	
Fe 271.441	53625.5	51848.5	50660.3	
K 766.491	643.726	622.515	611.840	
Mg 279.078	1864.51	1805.63	1757.50	
Mn 257.610	3496.76	3387.81	3305.43	
Mo 202.032	1.7344	1.9284	1.7039	
Na 330.237	-291.884u	-80.6847u	-43.6620u	
Ni 231.604	12.9952	9.9832	10.3027	
Pb 220.353	52.5451	52.2328	51.6105	
Sb 206.834	-11.6067u	-7.8556u	-8.7186u	
Se 196.026	2.5288	2.9663	0.3657	
Sn 189.925	5.3201	2.9599	5.5126	
Sr 216.596	41.4743	40.1159	38.3625	
Ti 334.941	486.267	471.054	460.553	
Tl 190.794	3.5305	3.6996	2.6277	
V 292.401	87.4628	85.6001	83.3594	
Zn 206.200	105.861	103.112	100.539	

<b>Label</b>	<b>Sol'n Conc.</b>	<b>Units</b>	<b>SD</b>	<b>%RSD</b>	<b>Int. (c/s)</b>
Ag 328.068	-0.1888	ppb	0.1402	74.3	2.0571
Al 308.215	16117.3	ppb	459.386	2.9	137775
As 188.980	21.0249	ppb	1.8484	8.8	11.6950
B 249.678	2.7229	ppb	0.2264	8.3	9.2869
Ba 389.178	243.285	ppb	7.1157	2.9	7872.99
Be 313.042	1.4741	ppb	0.0409	2.8	3243.44
Ca 370.602	19793	ppb	591.8	3.0	108577
Cd 226.502	0.1960	ppb	0.1199	61.1	416.609
Co 228.615	15.1281	ppb	0.9360	6.2	242.887
Cr 267.716	52.9313	ppb	1.5746	3.0	4370.86
Cu 324.754	18.2143	ppb	0.7588	4.2	1479.56
Fe 271.441	52044.8	ppb	1492.34	2.9	140682
K 766.491	626.027	ppb	16.2308	2.6	39228.2
Mg 279.078	1809.21	ppb	53.5969	3.0	9467.05
Mn 257.610	3396.66	ppb	95.9696	2.8	1151855
Mo 202.032	1.7889	ppb	0.1218	6.8	40.3806
Na 330.237	-138.744	ppb	133.909	96.5	149.649
Ni 231.604	11.0937	ppb	1.6545	14.9	54.8873
Pb 220.353	52.1295	ppb	0.4758	0.9	241.095
Sb 206.834	-9.3936	ppb	1.9646	20.9	24.2339
Se 196.026	1.9536	ppb	1.3924	71.3	-7.4341
Sn 189.925	4.5976	ppb	1.4215	30.9	-22.8279
Sr 216.596	39.9842	ppb	1.5601	3.9	1130.04
Ti 334.941	472.625	ppb	12.9290	2.7	156202
Tl 190.794	3.2859	ppb	0.5763	17.5	-49.9115
V 292.401	85.4741	ppb	2.0546	2.4	3246.90
Zn 206.200	103.171	ppb	2.6615	2.6	310.832

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Rack 1, Tube 41

Weight: 1

Volume: 1

Dilution: 1

Label	Replicates	Concentration			
Ag 328.068	-0.6574u	-0.6349u	-0.5063u		
Al 308.215	18246.7	17928.5	17418.0		
As 188.980	58.8409	56.6227	50.7205		
B 249.678	-7.8571u	-6.3913u	-5.7583u		
Ba 389.178	1076.93	1059.86	1033.13		
Be 313.042	3.3394	3.2758	3.2027		
Ca 370.602	1806	1784	1753		
Cd 226.502	-1.2119	-1.3177	-1.6077		
Co 228.615	58.2456	58.8941	58.1644		
Cr 267.716	89.7391	87.6682	85.5894		
Cu 324.754	6.2182	7.1546	6.2863		
Fe 271.441	163126	160361	155835		
K 766.491	136.419	134.712	131.572		
Mg 279.078	1151.19	1130.05	1100.82		
Mn 257.610	12308.0	12057.9	11749.0		
Mo 202.032	1.4261	1.1364	1.1642		
Na 330.237	-394.938u	-311.990u	-431.347u		
Ni 231.604	16.1836	16.7125	15.4744		
Pb 220.353	85.9612	82.7886	81.4323		
Sb 206.834	-14.4957u	-13.5311u	-16.0888u		
Se 196.026	10.9945	7.7197	-3.3391		
Sn 189.925	3.8969	2.8467	7.1552		
Sr 216.596	-3.3520	-4.6180	-4.8262		
Ti 334.941	97.0284	95.7035	92.9580		
Tl 190.794	5.7658u	9.6968	12.7953		
V 292.401	183.342	180.589	175.185		
Zn 206.200	54.2049	54.7496	52.0121		

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.5995	ppb	0.0815	13.6	-5.5273
Al 308.215	17864.4	ppb	418.019	2.3	152659
As 188.980	55.3947	ppb	4.1972	7.6	51.1152
B 249.678	-6.6689	ppb	1.0766	16.1	-459.954
Ba 389.178	1056.64	ppb	22.0809	2.1	34834.8
Be 313.042	3.2726	ppb	0.0684	2.1	8043.33
Ca 370.602	1781	ppb	26.51	1.5	6597
Cd 226.502	-1.3791	ppb	0.2049	14.9	921.612
Co 228.615	58.4347	ppb	0.3999	0.7	1080.89
Cr 267.716	87.6656	ppb	2.0748	2.4	7283.34
Cu 324.754	6.5530	ppb	0.5221	8.0	728.519
Fe 271.441	159774	ppb	3681.00	2.3	431564
K 766.491	134.234	ppb	2.4584	1.8	8826.94
Mg 279.078	1127.35	ppb	25.2946	2.2	5538.62
Mn 257.610	12038.3	ppb	280.027	2.3	4082079
Mo 202.032	1.2422	ppb	0.1599	12.9	28.5998
Na 330.237	-379.425	ppb	61.1717	16.1	85.5706
Ni 231.604	16.1235	ppb	0.6212	3.9	91.8742
Pb 220.353	83.3940	ppb	2.3243	2.8	364.797
Sb 206.834	-14.7052	ppb	1.2917	8.8	13.7579
Se 196.026	5.1250	ppb	7.5108	146.6	-2.4266
Sn 189.925	4.6329	ppb	2.2466	48.5	-22.7711
Sr 216.596	-4.2654	ppb	0.7979	18.7	372.120

E08192015.wvq. All Data Report 8/20/2015, 3:03:52 PM

<b>Label</b>	<b>Sol'n Conc.</b>	<b>Units</b>	<b>SD</b>	<b>%RSD</b>	<b>Int. (c/s)</b>
Ti 334.941	95.2299	ppb	2.0761	2.2	31499.7
Tl 190.794	9.4193	ppb	3.5230	37.4	-47.2338
V 292.401	179.705	ppb	4.1495	2.3	6851.02
Zn 206.200	53.6555	ppb	1.4491	2.7	161.943

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Rack 1, Tube 42

**Weight:** 1

Volume: 1

### Dilution: 1

## Label      Replicates Concentration

Element	Replicate	Concentration	
Ag	328.068	-0.6145	-0.9572u
Al	308.215	5426.70	5160.75
As	188.980	21.4107	20.5569
B	249.678	-2.3476u	-2.1913u
Ba	389.178	1301.40	1266.94
Be	313.042	0.8529	0.8315
Ca	370.602	1413	1372
Cd	226.502	0.1556	0.0457
Co	228.615	25.3082	23.9424
Cr	267.716	25.1886	24.8380
Cu	324.754	9.9914	10.5337
Fe	271.441	38064.9	37042.2
K	766.491	100.994	99.6916
Mg	279.078	582.784	573.140
Mn	257.610	15917.6	15718.4
Mo	202.032	0.4304	1.3167
Na	330.237	-106.349u	-229.465u
Ni	231.604	7.3844	7.1149
Pb	220.353	24.7971	27.4002
Sb	206.834	-9.5409u	-11.7922u
Se	196.026	2.8669	7.0772
Sn	189.925	5.0254	4.5343
Sr	216.596	20.6062	20.2710
Ti	334.941	52.4776	51.1385
Tl	190.794	4.7828	5.7535
V	292.401	49.6925	48.0200
Zn	206.200	29.8828	29.6260

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.7911	ppb	0.1716	21.7	19.0859
Al 308.215	5292.39	ppb	132.998	2.5	45710.2
As 188.980	22.1580	ppb	2.0782	9.4	13.2096
B 249.678	-2.4818	ppb	0.3760	15.2	-51.5124
Ba 389.178	1269.42	ppb	30.8104	2.4	41764.9
Be 313.042	0.8296	ppb	0.0243	2.9	1503.15
Ca 370.602	1374	ppb	37.87	2.8	7465
Cd 226.502	0.0948	ppb	0.0559	58.9	320.343
Co 228.615	24.3640	ppb	0.8193	3.4	410.528
Cr 267.716	24.6715	ppb	0.6174	2.5	2166.92
Cu 324.754	9.7826	ppb	0.8744	8.9	900.877
Fe 271.441	37079.9	ppb	966.627	2.6	100277
K 766.491	99.5528	ppb	1.5153	1.5	6683.02
Mg 279.078	571.534	ppb	12.1338	2.1	2485.18
Mn 257.610	15608.0	ppb	377.061	2.4	5291732
Mo 202.032	0.8188	ppb	0.4532	55.3	32.5733

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Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Na 330.237	-150.134	ppb	68.8262	45.8	154.946
Ni 231.604	7.1664	ppb	0.1974	2.8	32.3625
Pb 220.353	25.2134	ppb	2.0113	8.0	157.041
Sb 206.834	-11.5453	ppb	1.8931	16.4	20.5331
Se 196.026	2.3878	ppb	4.9464	207.2	-2.2324
Sn 189.925	4.5610	ppb	0.4517	9.9	-22.8871
Sr 216.596	20.0548	ppb	0.6856	3.4	624.469
Ti 334.941	51.1636	ppb	1.3017	2.5	16919.0
Tl 190.794	4.0492	ppb	2.1664	53.5	-35.6999
V 292.401	48.2809	ppb	1.3010	2.7	1819.72
Zn 206.200	29.0821	ppb	1.1715	4.0	88.7252

CRI (Samp) 8/20/2015, 1:24:32 PM Rack 1, Tube 43  
 Weight: 1 Volume: 1 Dilution: 1

Label	Replicates	Concentration
Ag 328.068	9.6621	9.3443
Al 308.215	167.166	171.256
As 188.980	13.2005	17.7351
B 249.678	92.3801	93.1591
Ba 389.178	11.9879	11.0573
Be 313.042	3.7316	3.7552
Ca 370.602	509.7	515.5
Cd 226.502	5.1894	5.2462
Co 228.615	10.1005	10.3120
Cr 267.716	9.3746	9.4019
Cu 324.754	20.9245	20.1616
Fe 271.441	39.7686	40.3080
K 766.491	985.210	991.292
Mg 279.078	470.093	472.788
Mn 257.610	10.0153	10.0007
Mo 202.032	9.5929	9.2114
Na 330.237	745.749	726.761
Ni 231.604	41.9732	42.1409
Pb 220.353	8.5489	7.6420
Sb 206.834	14.8223	17.9265
Se 196.026	19.6682	23.6798
Sn 189.925	52.0188	50.0774
Sr 216.596	11.1226	10.8726
Ti 334.941	11.0765	11.2063
Tl 190.794	25.5383	25.4404
V 292.401	11.1417	11.1486
Zn 206.200	20.5868	20.3028

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	9.8628	ppb	0.6427	6.5	947.125
Al 308.215	172.231	ppb	5.6171	3.3	2157.95
As 188.980	17.1441	ppb	3.6838	21.5	7.7002
B 249.678	93.9558	ppb	2.0911	2.2	1912.46
Ba 389.178	11.4136	ppb	0.5022	4.4	165.707
Be 313.042	3.7915	ppb	0.0842	2.2	9420.36
Ca 370.602	519.6	ppb	12.41	2.4	2843
Cd 226.502	5.2946	ppb	0.1360	2.6	558.544
Co 228.615	10.4015	ppb	0.3543	3.4	133.979

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Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Cr 267.716	9.4739	ppb	0.1490	1.6	809.688
Cu 324.754	20.1585	ppb	0.7676	3.8	1592.28
Fe 271.441	43.2322	ppb	5.5386	12.8	273.964
K 766.491	1000.55	ppb	21.5255	2.2	62380.4
Mg 279.078	476.756	ppb	9.3041	2.0	2613.84
Mn 257.610	10.1323	ppb	0.2154	2.1	3478.04
Mo 202.032	9.5424	ppb	0.3088	3.2	113.971
Na 330.237	741.995	ppb	13.7474	1.9	244.627
Ni 231.604	42.8822	ppb	1.4316	3.3	220.506
Pb 220.353	8.5327	ppb	0.8827	10.3	90.1907
Sb 206.834	15.9749	ppb	1.6994	10.6	66.5544
Se 196.026	19.9699	ppb	3.5685	17.9	5.6597
Sn 189.925	51.1872	ppb	1.0001	2.0	52.7025
Sr 216.596	11.3320	ppb	0.5926	5.2	322.128
Ti 334.941	11.2440	ppb	0.1891	1.7	3721.69
Tl 190.794	25.8272	ppb	0.5873	2.3	-3.2722
V 292.401	11.3161	ppb	0.2963	2.6	401.734
Zn 206.200	20.5697	ppb	0.2588	1.3	63.3077

Cont Calib Verif (CCV)

8/20/2015, 1:30:18 PM

Rack 1, Tube 49

Weight: 1

Volume: 1

Dilution: 1

Label	Replicates	Concentration					
Ag 328.068	492.048	495.789	482.327				
Al 308.215	4783.51	4777.50	4958.73				
As 188.980	483.950	480.717	501.239				
B 249.678	464.575	465.284	485.281				
Ba 389.178	4814.45	4807.00	4977.09				
Be 313.042	479.886	477.861	496.255				
Ca 370.602	5126	5107	5307				
Cd 226.502	486.559	486.755	506.308				
Co 228.615	480.859	481.456	499.921				
Cr 267.716	4940.75	4931.56	5132.90				
Cu 324.754	5009.37	5042.04	4839.45				
Fe 271.441	4753.87	4746.51	4934.38				
K 766.491	9640.21	9584.63	9682.92				
Mg 279.078	4767.96	4763.64	4959.99				
Mn 257.610	4832.28	4830.50	5013.02				
Mo 202.032	489.411	486.425	508.164				
Na 330.237	6709.48	6655.61	7120.93				
Ni 231.604	2393.48	2392.71	2497.62				
Pb 220.353	481.638	484.094	502.039				
Sb 206.834	975.781	975.721	1016.98				
Se 196.026	4811.70	4831.67	5003.25				
Sn 189.925	4670.65	4816.35	4766.43				
Sr 216.596	2408.57	2408.33	2505.30				
Ti 334.941	477.805	476.457	493.355				
Tl 190.794	4852.38	4855.87	5031.85				
V 292.401	4795.64	4785.71	4952.83				
Zn 206.200	2431.10	2424.33	2527.26				

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)	QC Value
Ag 328.068	490.054	ppb	6.9489	1.4	46465.7	98.01088
Al 308.215	4839.91	ppb	102.940	2.1	42526.5	96.79823

E08192015.wvq. All Data Report 8/20/2015, 3:03:52 PM

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)	QC Value
As 188.980	488.635	ppb	11.0341	2.3	565.213	97.72704
B 249.678	471.713	ppb	11.7552	2.5	9220.60	94.34262
Ba 389.178	4866.18	ppb	96.1221	2.0	160618	97.32360
Be 313.042	484.667	ppb	10.0867	2.1	1294863	96.93345
Ca 370.602	5180	ppb	110.5	2.1	29185	103.59975
Cd 226.502	493.207	ppb	11.3457	2.3	43646.3	98.64148
Co 228.615	487.412	ppb	10.8368	2.2	9562.86	97.48241
Cr 267.716	5001.74	ppb	113.687	2.3	404601	100.03476
Cu 324.754	4963.62	ppb	108.768	2.2	337603	99.27235
Fe 271.441	4811.59	ppb	106.407	2.2	13327.6	96.23180
K 766.491	9635.92	ppb	49.2847	0.5	596194	96.35925
Mg 279.078	4830.53	ppb	112.139	2.3	25288.0	96.61063
Mn 257.610	4891.93	ppb	104.870	2.1	1658605	97.83867
Mo 202.032	494.667	ppb	11.7841	2.4	4502.30	98.93340
Na 330.237	6828.67	ppb	254.531	3.7	747.797	91.04900
Ni 231.604	2427.94	ppb	60.3511	2.5	13013.1	97.11748
Pb 220.353	489.257	ppb	11.1375	2.3	1655.51	97.85146
Sb 206.834	989.493	ppb	23.8024	2.4	1755.75	98.94930
Se 196.026	4882.21	ppb	105.301	2.2	3789.90	97.64412
Sn 189.925	4751.14	ppb	74.0411	1.6	7672.11	95.02282
Sr 216.596	2440.73	ppb	55.9202	2.3	57130.0	97.62932
Ti 334.941	482.539	ppb	9.3911	1.9	159477	96.50776
Tl 190.794	4913.37	ppb	102.626	2.1	9076.88	98.26736
V 292.401	4844.73	ppb	93.7550	1.9	185129	96.89450
Zn 206.200	2460.90	ppb	57.5690	2.3	7345.61	98.43588

Cont Calib Blank (CCB) 8/20/2015, 1:34:02 PM

Weight: 1 Volume: 1

Rack 1, Tube 50

Dilution: 1

Label	Replicates	Concentration
Ag 328.068	-0.4955u	-0.3465u
Al 308.215	-17.8376u	-12.8075u
As 188.980	-1.0340u	1.0433
B 249.678	5.0016	3.9576
Ba 389.178	2.1693	3.6584
Be 313.042	0.0682	0.1757
Ca 370.602	10.82	12.94
Cd 226.502	0.5037	0.5519
Co 228.615	0.3242	0.3930
Cr 267.716	0.1978	1.2774
Cu 324.754	1.0477	2.3963
Fe 271.441	-1.0455u	2.6747
K 766.491	0.0753	2.2226
Mg 279.078	-4.2108u	1.6215
Mn 257.610	0.6683	1.9787
Mo 202.032	0.3975	0.7706
Na 330.237	-302.512u	-215.091u
Ni 231.604	1.2084	2.8040
Pb 220.353	-2.7370u	-0.3855u
Sb 206.834	-5.3316u	-2.6943u
Se 196.026	-0.7540u	1.4891
Sn 189.925	4.8385	4.9331
Sr 216.596	0.0934	0.7281
Ti 334.941	0.1802	0.3247

Label	Replicates	Concentration				
Tl 190.794	4.8236	1.7810	6.9755			
V 292.401	0.8527	2.1756	3.0645			
Zn 206.200	0.7220	0.4660	1.5672			

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)	QC Value
Ag 328.068	-0.1163	ppb	0.5330	458.2	0.4530	-0.11632
Al 308.215	-13.8416	ppb	3.5924	26.0	573.873	-13.84158
As 188.980	0.6952	ppb	1.5841	227.9	-11.7563	0.69519
B 249.678	4.5110	ppb	0.5248	11.6	182.720	4.51098
Ba 389.178	3.4010	ppb	1.1253	33.1	-100.333	3.40099
Be 313.042	0.1844	ppb	0.1207	65.5	-218.609	0.18439
Ca 370.602	12.98	ppb	2.169	16.7	37.00	12.97613
Cd 226.502	0.6014	ppb	0.1297	21.6	144.147	0.60137
Co 228.615	0.4722	ppb	0.1997	42.3	-62.0789	0.47223
Cr 267.716	1.4530	ppb	1.3517	93.0	160.939	1.45303
Cu 324.754	2.4325	ppb	1.4032	57.7	387.046	2.43253
Fe 271.441	1.6368	ppb	2.3426	143.1	159.772	1.63676
K 766.491	2.5516	ppb	2.6561	104.1	686.682	2.55160
Mg 279.078	0.0382	ppb	3.7193	9735.7	109.857	0.03820
Mn 257.610	2.1233	ppb	1.5324	72.2	756.864	2.12326
Mo 202.032	0.7094	ppb	0.2862	40.3	33.9520	0.70938
Na 330.237	-224.314	ppb	74.0195	33.0	163.962	-224.31363
Ni 231.604	2.6667	ppb	1.3948	52.3	4.8170	2.66672
Pb 220.353	-2.5681	ppb	2.1032	81.9	54.1717	-2.56810
Sb 206.834	-5.8939	ppb	3.5146	59.6	30.3011	-5.89388
Se 196.026	1.4931	ppb	2.2491	150.6	-8.7164	1.49311
Sn 189.925	5.5983	ppb	1.2349	22.1	-21.2054	5.59828
Sr 216.596	0.7360	ppb	0.6466	87.9	75.9760	0.73603
Ti 334.941	0.3406	ppb	0.1690	49.6	117.638	0.34063
Tl 190.794	4.5267	ppb	2.6099	57.7	-42.8183	4.52671
V 292.401	2.0309	ppb	1.1130	54.8	48.8651	2.03092
Zn 206.200	0.9184	ppb	0.5763	62.8	4.4006	0.91841



## METALS BATCH WORKSHEET

Lab Name: TestAmerica Savannah

Job No.: 680-115692-1

SDG No.: 680-115692-01

Batch Number: 396577

Batch Start Date: 08/17/15 13:16

Batch Analyst: Dixon, Charles D

Batch Method: 3050B

Batch End Date: 08/18/15 10:46

Lab Sample ID	Client Sample I	Method Chain	Basis	CalcMsg	InitialAmount	FinalAmount	MS_Ag_LCS_SPK 00037	MS_LCS1_WK 00023	MS_LCS2_wk 00179
MB 680-396577/1		3050B, 6010C		CALC NOT SET TO RUN	1.12 g	100 mL			
LCS 680-396577/2		3050B, 6010C		CALC NOT SET TO RUN	1.09 g	100 mL	1 mL	1 mL	1 mL
680-115692-A- 1	CV0511NN-CS-6	3050B, 6010C	T	CALC NOT SET TO RUN	1.04 g	100 mL			
680-115692-A- 1 MS	CV0511NN-CS-6	3050B, 6010C	T	CALC NOT SET TO RUN	1.05 g	100 mL	1 mL	1 mL	1 mL
680-115692-A- 1 MSD	CV0511NN-CS-6	3050B, 6010C	T	CALC NOT SET TO RUN	1.07 g	100 mL	1 mL	1 mL	1 mL
680-115692-A- 18	CV0511HHH-CS-2 4	3050B, 6010C	T	CALC NOT SET TO RUN	1.10 g	100 mL			
680-115692-A- 11	CV0511SS-CS-12	3050B, 6010C	T	CALC NOT SET TO RUN	1.15 g	100 mL			
680-115692-A- 17	CV0511HHH-CS-1 8	3050B, 6010C	T	CALC NOT SET TO RUN	1.09 g	100 mL			
680-115692-A- 16	CV0511HHH-CS-1 2	3050B, 6010C	T	CALC NOT SET TO RUN	1.11 g	100 mL			
680-115692-A- 20	CV0511BBB-CS-1 2	3050B, 6010C	T	CALC NOT SET TO RUN	1.10 g	100 mL			
680-115692-A- 2	CV0511NN-CSD-6	3050B, 6010C	T	CALC NOT SET TO RUN	1.18 g	100 mL			
680-115692-A- 19	CV0511BBB-CS-6	3050B, 6010C	T	CALC NOT SET TO RUN	1.13 g	100 mL			
680-115692-A- 13	CV0511SS-CS-24	3050B, 6010C	T	CALC NOT SET TO RUN	1.14 g	100 mL			
680-115692-A- 12	CV0511SS-CS-18	3050B, 6010C	T	CALC NOT SET TO RUN	1.17 g	100 mL			
680-115692-A- 10	CV0511SS-CS-6	3050B, 6010C	T	CALC NOT SET TO RUN	1.19 g	100 mL			
680-115692-A- 9	CV0511TT-CS-24	3050B, 6010C	T	CALC NOT SET TO RUN	1.08 g	100 mL			
680-115692-A- 7	CV0511TT-CS-12	3050B, 6010C	T	CALC NOT SET TO RUN	1.19 g	100 mL			

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

6010C

Page 1 of 3

## METALS BATCH WORKSHEET

Lab Name: TestAmerica Savannah

Job No.: 680-115692-1

SDG No.: 680-115692-01

Batch Number: 396577

Batch Start Date: 08/17/15 13:16

Batch Analyst: Dixon, Charles D

Batch Method: 3050B

Batch End Date: 08/18/15 10:46

Lab Sample ID	Client Sample I	Method Chain	Basis	CalcMsg	InitialAmount	FinalAmount	MS_Ag_LCS_SPK 00037	MS_LCS1_WK 00023	MS_LCS2_wk 00179
680-115692-A-8	CV0511TT-CS-18	3050B, 6010C	T	CALC NOT SET TO RUN	1.19 g	100 mL			
680-115692-A-4	CV0511NN-CS-18	3050B, 6010C	T	CALC NOT SET TO RUN	1.15 g	100 mL			
680-115692-A-3	CV0511NN-CS-12	3050B, 6010C	T	CALC NOT SET TO RUN	1.06 g	100 mL			
680-115692-A-14	CV0511HHH-CS-6	3050B, 6010C	T	CALC NOT SET TO RUN	1.17 g	100 mL			
680-115692-A-5	CV0511NN-CS-24	3050B, 6010C	T	CALC NOT SET TO RUN	1.12 g	100 mL			
680-115692-A-15	CV0511HHH-CSD-12	3050B, 6010C	T	CALC NOT SET TO RUN	1.15 g	100 mL			
680-115692-A-6	CV0511TT-CS-6	3050B, 6010C	T	CALC NOT SET TO RUN	1.14 g	100 mL			

## Batch Notes

Balance ID	25
Blank Soil Lot Number	4067849
First End time	1046
Hydrogen peroxide lot number	4164086
Lot # of hydrochloric acid	4179895 & 4180728
Lot # of Nitric Acid	4179878
Hot Block ID number	HB10
Oven, Bath or Block Temperature 1	94 Degrees C
Oven, Bath or Block Temperature 2	94 Degrees C
Pipette ID	ME16
First Start time	1309
ID number of the thermometer	ME Prep 15
Digestion Tube/Cup Lot #	4168566
Uncorrected Temperature	92 Celsius
Uncorrected Temperature 2	92 Degrees C

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

6010C

Page 2 of 3

## METALS BATCH WORKSHEET

Lab Name: TestAmerica Savannah Job No.: 680-115692-1  
SDG No.: 680-115692-01  
Batch Number: 396577 Batch Start Date: 08/17/15 13:16 Batch Analyst: Dixon, Charles D  
Batch Method: 3050B Batch End Date: 08/18/15 10:46

Basis	Basis Description
T	Total/NA

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

6010C

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# **GENERAL CHEMISTRY**

COVER PAGE  
GENERAL CHEMISTRY

Lab Name: TestAmerica Savannah \_\_\_\_\_ Job Number: 680-115692-1 \_\_\_\_\_

SDG No.: 680-115692-01 \_\_\_\_\_

Project: 35th Avenue Superfund Site \_\_\_\_\_

Client Sample ID	Lab Sample ID
CV0511NN-CS-6	680-115692-1
CV0511NN-CSD-6	680-115692-2
CV0511NN-CS-12	680-115692-3
CV0511NN-CS-18	680-115692-4
CV0511NN-CS-24	680-115692-5
CV0511TT-CS-6	680-115692-6
CV0511TT-CS-12	680-115692-7
CV0511TT-CS-18	680-115692-8
CV0511TT-CS-24	680-115692-9
CV0511SS-CS-6	680-115692-10
CV0511SS-CS-12	680-115692-11
CV0511SS-CS-18	680-115692-12
CV0511SS-CS-24	680-115692-13
CV0511HHH-CS-6	680-115692-14
CV0511HHH-CSD-12	680-115692-15
CV0511HHH-CS-12	680-115692-16
CV0511HHH-CS-18	680-115692-17
CV0511HHH-CS-24	680-115692-18
CV0511BBB-CS-6	680-115692-19
CV0511BBB-CS-12	680-115692-20

Comments:

9-IN  
DETECTION LIMITS  
GENERAL CHEMISTRY

Lab Name: TestAmerica Savannah

Job Number: 680-115692-1

SDG Number: 680-115692-01

Matrix: Solid      Instrument ID: NOEQUIP

Method: Moisture      RL Date: 01/01/2005 13:43

Analyte	Wavelength/ Mass	RL (%)	
Percent Moisture		0.01	

9-IN  
CALIBRATION BLANK DETECTION LIMITS  
GENERAL CHEMISTRY

Lab Name: TestAmerica Savannah

Job Number: 680-115692-1

SDG Number: 680-115692-01

Matrix: Solid      Instrument ID: NOEQUIP

Method: Moisture      XRL Date: 04/09/2011 17:03

Analyte	Wavelength/ Mass	XRL (%)	
Percent Moisture		0.01	

13-IN  
ANALYSIS RUN LOG  
GENERAL CHEMISTRY

Lab Name: TestAmerica Savannah Job No.: 680-115692-1  
SDG No.: 680-115692-01  
Instrument ID: NOEQUIP Method: Moisture  
Start Date: 08/18/2015 10:37 End Date: 08/18/2015 10:37

13-IN  
ANALYSIS RUN LOG  
GENERAL CHEMISTRY

Lab Name: TestAmerica Savannah Job No.: 680-115692-1

SDG No.: 680-115692-01

Instrument ID: NOEQUIP                          Method: Moisture

Start Date: 08/18/2015 10:37 End Date: 08/18/2015 10:37

## Prep Types

T = Total/NA

## GENERAL CHEMISTRY BATCH WORKSHEET

Lab Name: TestAmerica Savannah

Job No.: 680-115692-1

SDG No.: 680-115692-01

Batch Number: 396716

Batch Start Date: 08/18/15 10:37

Batch Analyst: Swafford, Frances E

Batch Method: Moisture

Batch End Date: 08/18/15 15:30

Lab Sample ID	Client Sample ID	Method Chain	Basis	DishWeight	SampleMassWet	SampleMassDry			
680-115692-A-1	CV0511NN-CS-6	Moisture	T	1.34 g	8.57 g	7.76 g			
680-115692-A-1	CV0511NN-CS-6	Moisture	T	1.34 g	8.57 g	7.76 g			
680-115692-A-1	CV0511NN-CS-6	Moisture	T	1.34 g	8.57 g	7.76 g			
680-115692-A-2	CV0511NN-CSD-6	Moisture	T	1.32 g	7.66 g	6.90 g			
680-115692-A-3	CV0511NN-CS-12	Moisture	T	1.36 g	7.35 g	6.45 g			
680-115692-A-4	CV0511NN-CS-18	Moisture	T	1.31 g	8.25 g	6.99 g			
680-115692-A-5	CV0511NN-CS-24	Moisture	T	1.34 g	7.73 g	6.59 g			
680-115692-A-6	CV0511TT-CS-6	Moisture	T	1.33 g	7.94 g	7.19 g			
680-115692-A-7	CV0511TT-CS-12	Moisture	T	1.32 g	7.83 g	6.93 g			
680-115692-A-8	CV0511TT-CS-18	Moisture	T	1.34 g	8.14 g	6.98 g			
680-115692-A-9	CV0511TT-CS-24	Moisture	T	1.31 g	7.50 g	6.22 g			
680-115692-A-10	CV0511SS-CS-6	Moisture	T	1.35 g	8.55 g	7.58 g			
680-115692-A-11	CV0511SS-CS-12	Moisture	T	1.35 g	7.75 g	6.88 g			
680-115692-A-12	CV0511SS-CS-18	Moisture	T	1.33 g	8.44 g	7.30 g			
680-115692-A-13	CV0511SS-CS-24	Moisture	T	1.35 g	8.27 g	6.99 g			
680-115692-A-14	CV0511HHH-CS-6	Moisture	T	1.33 g	8.58 g	7.89 g			
680-115692-A-15	CV0511HHH-CSD-12	Moisture	T	1.35 g	8.38 g	7.37 g			
680-115692-A-16	CV0511HHH-CS-12	Moisture	T	1.30 g	7.90 g	6.96 g			
680-115692-A-17	CV0511HHH-CS-18	Moisture	T	1.32 g	8.13 g	7.07 g			
680-115692-A-18	CV0511HHH-CS-24	Moisture	T	1.36 g	7.73 g	6.61 g			
680-115692-A-19	CV0511BBB-CS-6	Moisture	T	1.33 g	8.13 g	7.85 g			
680-115692-A-20	CV0511BBB-CS-12	Moisture	T	1.35 g	7.98 g	7.12 g			

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

## GENERAL CHEMISTRY BATCH WORKSHEET

Lab Name: TestAmerica Savannah

Job No.: 680-115692-1

SDG No.: 680-115692-01

Batch Number: 396716

Batch Start Date: 08/18/15 10:37

Batch Analyst: Swafford, Frances E

Batch Method: Moisture

Batch End Date: 08/18/15 15:30

Batch Notes	
Balance ID	19 No Unit
Date samples were placed in the oven	8/18/15
Oven Temp when samples are put in oven	109 Degrees C
Time samples were place in the oven	10:37
Date samples were removed from oven	8/18/15
Oven Temp when samples removed from oven	109 Degrees C
Time Samples were removed from oven	15:00
Oven ID	CU02
ID number of the thermometer	CU02
Uncorrected In Temperature	109 Celsius
Uncorrected Out Temperature	109 Celsius

Basis	Basis Description
T	Total/NA

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

Moisture

Page 2 of 2

# **Shipping and Receiving Documents**

# TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

## ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD

TestAmerica Savannah

5102 LaRoche Avenue  
Savannah, GA 31404

Serial Number 99597

Website: www.testamericainc.com  
Phone: (912) 354-7858  
Fax: (912) 352-0165

Alternate Laboratory Name/Location

Phone:  
Fax:

PROJECT REFERENCE 354-R-002

PROJECT NO.  
P.O. NUMBER

CLIENT (LAB) PROJECT MANAGER Lisa Harvey

CLIENT (SITE) PM

CLIENT NAME Russell Harrelson

CLIENT ADDRESS 120 Kenneth Circle Ste 106 Maitland, FL 32066

COMPANY CONTRACTING THIS WORK (if applicable)

REQUIRED ANALYSIS

STANDARD REPORT  
DELIVERY  
DATE DUE 8/21/15

EXPEDITED REPORT  
DELIVERY  
(SURCHARGE)  
DATE DUE 8/21/15

NUMBER OF COOLERS SUBMITTED  
PER SHIPMENT:

REMARKS

NUMBER OF CONTAINERS SUBMITTED

SAMPLE IDENTIFICATION

SAMPLE	DATE	TIME	NONAQUEOUS LIQUID (OIL, SOLVENT, ...)	AIR	COMPOSITE (C) OR GRAB (G) INDICATE	AQUEOUS (WATER)	SOLID OR SEMI-SOLID	NUMBER OF CONTAINERS SUBMITTED	REMARKS
1400	8/10/15	14:00	CV0511NN-CS-6"	X	X	X	X		
1400	8/10/15	14:00	CV0511NN-CSD-6"	C	X	X	X		
1405	8/10/15	14:05	CV0511NN-CS-12"	C	X	X	X		
1410	8/10/15	14:10	CV0511NN-CS-18"	C	X	X	X		
1415	8/10/15	14:15	CV0511NN-CS-24"	C	Y	Y	X		
1445	8/10/15	14:45	CV0511TT-CS-6"	C	X	X	X		
1450	8/10/15	14:50	CV0511TT-CS-12"	C	X	X	X		
1455	8/10/15	14:55	CV0511TT-CS-18"	C	X	X	X		
1500	8/10/15	15:00	CV0511TT-CS-24"	C	X	X	X		
1535	8/10/15	15:35	CV0511SS-CS-6"	C	X	X	X		
1540	8/10/15	15:40	CV0511SS-CS-12"	C	X	X	X		
1545	8/10/15	15:45	CV0511SS-CS-18"	C	X	X	X		
REINQUISITION BY: (SIGNATURE)	DATE	TIME	REINQUISITION BY: (SIGNATURE)	DATE	TIME	REINQUISITION BY: (SIGNATURE)	DATE	TIME	
<u>John</u>	8/14/15	14:35	<u>John</u>	8/14/15	14:35	<u>John</u>	8/14/15	14:35	
RECEIVED BY: (SIGNATURE)	DATE	TIME	RECEIVED BY: (SIGNATURE)	DATE	TIME	RECEIVED BY: (SIGNATURE)	DATE	TIME	
<u>John</u>	8/14/15	10:50	<u>John</u>	8/14/15	10:50	<u>John</u>	8/14/15	10:50	
LABORATORY USE ONLY									
RECEIVED FOR LABORATORY BY: (SIGNATURE)	DATE	TIME	CUSTODY INTACT YES <input checked="" type="radio"/> NO <input type="radio"/>	CUSTODY SEAL NO.	SAVANNAH LOGNO				LABORATORY REMARKS
<u>John</u>	08/15/15	10:50	<input checked="" type="radio"/>	680-1151692	3.0/2.4 (CP) 3.4/2.82				



680-1151692 Chain of Custody

TA-LB240-080 (1008)

# TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

**ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD**

 TestAmerica Savannah

5102 LaRoche Avenue  
Savannah, GA 31404

Alternate Laboratory Name/Location

Phone:  
Fax:

Serial Number 99598

Website: www.testamericainc.com

Phone: (912) 354-7858  
Fax: (912) 352-0165

PROJECT REFERENCE <u>3554</u>		PROJECT NO. <u>CV051144</u>	PROJECT LOCATION (STATE) <u>GA - 2554156</u>	MATRIX TYPE <u>C</u>	REQUIRED ANALYSIS		PAGE <u>2</u> OF <u>7</u>
TAL (LAB) PROJECT MANAGER <u>LISA Harvey</u>	P.O. NUMBER <u>678-111111111111</u>	CLIENT PHONE <u>678-2554156</u>	CLIENT FAX <u></u>	CONTRACT NO. <u></u>	STANDARD REPORT <input checked="" type="checkbox"/>	EXPEDITED REPORT <input checked="" type="checkbox"/>	DATE DUE <u>8/21/15</u>
CLIENT SITE PM <u>Lisa Harvey</u>	CLIENT E-MAIL <u>rheverar@otie.com</u>	CLIENT E-MAIL <u></u>	CLIENT FAX <u></u>	NONAQUEOUS LIQUID (OIL, SOLVENT, ...)	AIR	SOLIDS OR SEMISOLID	NUMBER OF COOLERS SUBMITTED PER SHIPMENT:
CLIENT NAME <u>OTIE</u>	CLIENT ADDRESS <u>1220 Kennerstone Circle Ste 106, Marietta, GA 30060</u>	COMPONENT (C) OR GRADE (G) INDICATE <u></u>	AQUEOUS (WATER)	AIR	SOLID OR SEMISOLID	NUMBER OF CONTAINERS SUBMITTED	REMARKS
COMPANY CONTRACTING THIS WORK (if applicable)							
SAMPLE	DATE	TIME	SAMPLE IDENTIFICATION				
1	08/11/15	15:30	CV051155-CS-24"	C	X	X	
2	08/11/15	08:40	CV051144H-CS-6"	C	X	X	
3	08:45	CV051144H-CS-12"	mm	C	X	X	
4	08:45	CV051144H-CS-12"	mm	C	X	X	
5	08:50	CV051144H-CS-18"	"	C	X	X	
6	08:55	CV051144H-CS-24"	"	C	X	X	
7	09:30	CV0511BBB-CS-6"	"	C	X	X	
8	09:35	CV0511BBB-CS-12"	"	C	X	X	
9	09:40	CV0511BBB-CS-18"	"	C	X	X	
10	09:45	CV0511BBB-CS-24"	"	C	X	X	
11	10:25	CV0511FF-CS-6"	"	C	X	X	
12	10:30	CV0511FF-CS-12"	"	C	X	X	
13	08/14/15	14:15	CV051155-CS-24"	C	X	X	
14	08/14/15	14:15	CV051155-CS-24"	C	X	X	
15	08/14/15	14:15	CV051155-CS-24"	C	X	X	
16	08/14/15	14:15	CV051155-CS-24"	C	X	X	
17	08/14/15	14:15	CV051155-CS-24"	C	X	X	
18	08/14/15	14:15	CV051155-CS-24"	C	X	X	
19	08/14/15	14:15	CV051155-CS-24"	C	X	X	
20	08/14/15	14:15	CV051155-CS-24"	C	X	X	
21	08/14/15	14:15	CV051155-CS-24"	C	X	X	
22	08/14/15	14:15	CV051155-CS-24"	C	X	X	
23	08/14/15	14:15	CV051155-CS-24"	C	X	X	
24	08/14/15	14:15	CV051155-CS-24"	C	X	X	
25	08/14/15	14:15	CV051155-CS-24"	C	X	X	
26	08/14/15	14:15	CV051155-CS-24"	C	X	X	
27	08/14/15	14:15	CV051155-CS-24"	C	X	X	
28	08/14/15	14:15	CV051155-CS-24"	C	X	X	
29	08/14/15	14:15	CV051155-CS-24"	C	X	X	
30	08/14/15	14:15	CV051155-CS-24"	C	X	X	
31	08/14/15	14:15	CV051155-CS-24"	C	X	X	
32	08/14/15	14:15	CV051155-CS-24"	C	X	X	
33	08/14/15	14:15	CV051155-CS-24"	C	X	X	
34	08/14/15	14:15	CV051155-CS-24"	C	X	X	
35	08/14/15	14:15	CV051155-CS-24"	C	X	X	
36	08/14/15	14:15	CV051155-CS-24"	C	X	X	
37	08/14/15	14:15	CV051155-CS-24"	C	X	X	
38	08/14/15	14:15	CV051155-CS-24"	C	X	X	
39	08/14/15	14:15	CV051155-CS-24"	C	X	X	
40	08/14/15	14:15	CV051155-CS-24"	C	X	X	
41	08/14/15	14:15	CV051155-CS-24"	C	X	X	
42	08/14/15	14:15	CV051155-CS-24"	C	X	X	
43	08/14/15	14:15	CV051155-CS-24"	C	X	X	
44	08/14/15	14:15	CV051155-CS-24"	C	X	X	
45	08/14/15	14:15	CV051155-CS-24"	C	X	X	
46	08/14/15	14:15	CV051155-CS-24"	C	X	X	
47	08/14/15	14:15	CV051155-CS-24"	C	X	X	
48	08/14/15	14:15	CV051155-CS-24"	C	X	X	
49	08/14/15	14:15	CV051155-CS-24"	C	X	X	
50	08/14/15	14:15	CV051155-CS-24"	C	X	X	
51	08/14/15	14:15	CV051155-CS-24"	C	X	X	
52	08/14/15	14:15	CV051155-CS-24"	C	X	X	
53	08/14/15	14:15	CV051155-CS-24"	C	X	X	
54	08/14/15	14:15	CV051155-CS-24"	C	X	X	
55	08/14/15	14:15	CV051155-CS-24"	C	X	X	
56	08/14/15	14:15	CV051155-CS-24"	C	X	X	
57	08/14/15	14:15	CV051155-CS-24"	C	X	X	
58	08/14/15	14:15	CV051155-CS-24"	C	X	X	
59	08/14/15	14:15	CV051155-CS-24"	C	X	X	
60	08/14/15	14:15	CV051155-CS-24"	C	X	X	
61	08/14/15	14:15	CV051155-CS-24"	C	X	X	
62	08/14/15	14:15	CV051155-CS-24"	C	X	X	
63	08/14/15	14:15	CV051155-CS-24"	C	X	X	
64	08/14/15	14:15	CV051155-CS-24"	C	X	X	
65	08/14/15	14:15	CV051155-CS-24"	C	X	X	
66	08/14/15	14:15	CV051155-CS-24"	C	X	X	
67	08/14/15	14:15	CV051155-CS-24"	C	X	X	
68	08/14/15	14:15	CV051155-CS-24"	C	X	X	
69	08/14/15	14:15	CV051155-CS-24"	C	X	X	
70	08/14/15	14:15	CV051155-CS-24"	C	X	X	
71	08/14/15	14:15	CV051155-CS-24"	C	X	X	
72	08/14/15	14:15	CV051155-CS-24"	C	X	X	
73	08/14/15	14:15	CV051155-CS-24"	C	X	X	
74	08/14/15	14:15	CV051155-CS-24"	C	X	X	
75	08/14/15	14:15	CV051155-CS-24"	C	X	X	
76	08/14/15	14:15	CV051155-CS-24"	C	X	X	
77	08/14/15	14:15	CV051155-CS-24"	C	X	X	
78	08/14/15	14:15	CV051155-CS-24"	C	X	X	
79	08/14/15	14:15	CV051155-CS-24"	C	X	X	
80	08/14/15	14:15	CV051155-CS-24"	C	X	X	
81	08/14/15	14:15	CV051155-CS-24"	C	X	X	
82	08/14/15	14:15	CV051155-CS-24"	C	X	X	
83	08/14/15	14:15	CV051155-CS-24"	C	X	X	
84	08/14/15	14:15	CV051155-CS-24"	C	X	X	
85	08/14/15	14:15	CV051155-CS-24"	C	X	X	
86	08/14/15	14:15	CV051155-CS-24"	C	X	X	
87	08/14/15	14:15	CV051155-CS-24"	C	X	X	
88	08/14/15	14:15	CV051155-CS-24"	C	X	X	
89	08/14/15	14:15	CV051155-CS-24"	C	X	X	
90	08/14/15	14:15	CV051155-CS-24"	C	X	X	
91	08/14/15	14:15	CV051155-CS-24"	C	X	X	
92	08/14/15	14:15	CV051155-CS-24"	C	X	X	
93	08/14/15	14:15	CV051155-CS-24"	C	X	X	
94	08/14/15	14:15	CV051155-CS-24"	C	X	X	
95	08/14/15	14:15	CV051155-CS-24"	C	X	X	
96	08/14/15	14:15	CV051155-CS-24"	C	X	X	
97	08/14/15	14:15	CV051155-CS-24"	C	X	X	
98	08/14/15	14:15	CV051155-CS-24"	C	X	X	
99	08/14/15	14:15	CV051155-CS-24"	C	X	X	
100	08/14/15	14:15	CV051155-CS-24"	C	X	X	
101	08/14/15	14:15	CV051155-CS-24"	C	X	X	
102	08/14/15	14:15	CV051155-CS-24"	C	X	X	
103	08/14/15	14:15	CV051155-CS-24"	C	X	X	
104	08/14/15	14:15	CV051155-CS-24"	C	X	X	
105	08/14/15	14:15	CV051155-CS-24"	C	X	X	
106	08/14/15	14:15	CV051155-CS-24"	C	X	X	
107	08/14/15	14:15	CV051155-CS-24"	C	X	X	
108	08/14/15	14:15	CV051155-CS-24"	C	X	X	
109	08/14/15	14:15	CV051155-CS-24"	C	X	X	
110	08/14/15	14:15	CV051155-CS-24"	C	X	X	
111	08/14/15	14:15	CV051155-CS-24"	C	X	X	
112	08/14/15	14:15	CV051155-CS-24"	C	X	X	
113	08/14/15	14:15	CV051155-CS-24"	C	X	X	
114	08/14/15	14:15	CV051155-CS-24"	C	X	X	
115	08/14/15	14:15	CV051155-CS-24"	C	X	X	
116	08/14/15	14:15	CV051155-CS-24"	C	X	X	
117	08/14/15	14:15	CV051155-CS-24"	C	X	X	
118	08/14/15	14:15	CV051155-CS-24"	C	X	X	
119	08/14/15	14:15	CV051155-CS-24"	C	X	X	
120	08/14/15	14:15	CV051155-CS-24"	C	X	X	
121	08/14/15	14:15	CV051155-CS-24"	C	X	X	
122	08/14/15	14:15	CV051155-CS-24"	C	X	X	
123	08/14/15	14:15	CV051155-CS-24"	C	X	X	
124	08/14/15	14:15	CV051155-CS-24"	C	X	X	
125	08/14/15	14:15	CV051155-CS-24"	C	X	X	
126	08/14/15	14:15	CV051155-CS-24"	C	X	X	
127	08/14/15	14:15	CV051155-CS-24"	C	X	X	
128	08/14/15	14:15	CV051155-CS-24"	C	X	X	
129	08/14/15	14:15	CV051155-CS-24"	C	X	X	
130	08/14/15	14:15	CV051155-CS-24"	C	X	X	
131	08/14/15	14:15	CV051155-CS-24"	C	X	X	
132	08/14/15	14:15	CV051155-CS-24"	C	X	X	
133	08/14/15	14:15	CV051155-CS-24"	C	X	X	
134	08/14/15	14:15	CV051155-CS-24"	C	X	X	
135	08/14/15	14:15	CV051155-CS-24"	C	X	X	
136	08/14/15	14:15	CV051155-CS-24"	C	X	X	
137	08/14/15	14:15	CV051155-CS-24"	C	X	X	
138	08/14/15	14:15	CV051155-CS-24"	C	X	X	
139	08/14/15	14:15	CV051155-CS-24"	C	X	X	
140	08/14/15	14:15	CV051155-CS-24"	C	X	X	
141	08/14/15	14:15	CV051155-CS-24"	C	X	X	
142	08/14/15	14:15	CV051155-CS-24"	C	X	X	
143	08/14/15	14:15	CV051155-CS-24"	C	X	X	
144	08/14/15	14:15	CV051155-CS-24"	C	X	X	
145	08/14/15	14:15	CV051155-CS-24"	C	X	X	
146	08/14/15	14:15	CV051155-CS-24"	C	X	X	
147	08/14/15	14:15	CV051155-CS-24"	C	X	X	
148	08/14/15	14:15	CV05				

## Login Sample Receipt Checklist

Client: Oneida Total Integrated Enterprises LLC

Job Number: 680-115692-1

SDG Number: 680-115692-01

**Login Number: 115692**

**List Source: TestAmerica Savannah**

**List Number: 1**

**Creator: Banda, Christy S**

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	N/A	
There are no discrepancies between the containers received and the COC.	False	rcvd extra sample (lid says 24S) - sample logged as -70
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	